

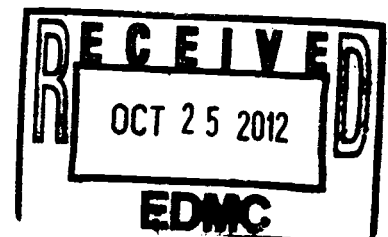
ORP Project Managers Meeting
 September 25, 2012
 2440 Stevens Ctr.
 Richland, Washington
Meeting Minutes Transmittal

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ADMINISTRATIVE RECORD – Heather Childers: H6-08

Please send comments on distribution list to Woody Russell (Woody_Russell@orp.doe.gov).



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The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.


Chris Kemp, DOE-ORP

Date: 10-23-2012


Wahed Abdul, DOE-ORP

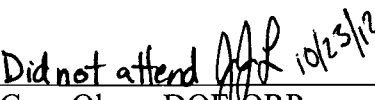
Date: 10/23/12


Jason Young, DOE-ORP

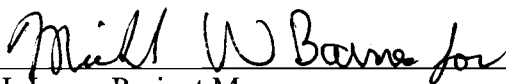
Date: 10/23/12


Jeff Bruggeman, DOE-ORP

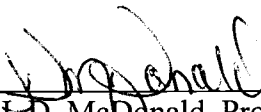
Date: 10/24/12


Did not attend 10/23/12
Gary Olsen, DOE-ORP

Date: 10/23/12


J. Lyon, Project Manager,
Washington State Department of Ecology

Date: 10-23-2012


J.D. McDonald, Project Manager,
Washington State Department of Ecology

Date: 10-23-12

Purpose: ORP Project Managers Meeting

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1.0 Administrative Items

Recent Items Entered/To Be Entered into the TPA Administrative Record - ORP noted that the meeting minutes for the 241-TY tank farm interim surface barrier monitoring plan have been signed by Ecology and ORP and will be entered into the Administrative Record (AR). A list of documents that have been entered in the AR was included on today's agenda.

ORP reported that Ecology sent ORP a list of requests and actions on September 20, 2012, which will be entered into the AR. ORP proposed scheduling a separate meeting with Ecology to discuss the items on the list, and to capture any action items generated from the meeting and track them at the project managers meeting (PMM). ORP also suggested keeping meeting minutes to be entered into the AR. ORP noted that more time is needed to review and respond to the items on the list Ecology sent. Ecology indicated that ORP's approach for a separate meeting would be acceptable.

Ecology proposed another action for ORP and Ecology to define the purpose of the PMM. Ecology noted that having a definition in place would provide an understanding of the PMM for new attendees. Ecology stated that agreement should be reached between ORP and Ecology about what is discussed during the PMM versus choosing to discuss items Ecology brings to the PMM at a separate meeting. ORP responded that some of the items on Ecology's list are substantial, and due to time constraints with the PMM, it would be more effective to hold a separate meeting. ORP added that the PMM could be used for following up with the items on Ecology's list.

Ecology acknowledged the time constraints with the PMM, and agreed that it was a good idea to move the discussion about the items on the list to a different time. Ecology added that the items on the list are on the PMM agenda, and they are legitimate items for discussion during the PMM. Ecology stated that ORP manages the PMM and drives the decisions and discussions based on ORP's schedule and needs. ORP responded that the process for the PMM has been evolving, especially since the Consent Decree (CD) was set in place, and one of the purposes for the PMM is to encourage open communication. An action was established for ORP and Ecology to define and agree to the purpose of the PMM.

2.0 Review of the ORP Project Summary

Tank Farms

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Tri-Party Agreement and Consent Decree (TPA and CD) Milestone Status - ORP noted that milestone M-047-06 was missed, M-090-11 is to be missed, and there are a few milestones associated with the single-shell tank (SST) integrity program that are at risk. ORP stated that a discussion between ORP and Ecology management is tentatively scheduled this week to discuss budget priorities, given the current budget constraints. A path forward for these milestones will be addressed during the meeting. ORP noted that the status is ongoing for the FY12 and FY13 CD milestones and there are no issues identified with meeting the milestones.

Single-Shell Tank Corrective Action; M-45, -50, -60:

M-045-20 - ORP reported that milestone M-045-20 is on schedule. Meeting minutes from an August 28, 2012 meeting were entered into the AR. Resolution of the barrier monitoring frequency for the revised monitoring plan was discussed during the meeting.

M-045-58 - This milestone will be closed when ORP receives Ecology's acceptance letter.

M-045-61 - ORP reported that this milestone, which is due in 2014, may be impacted due to funding constraints, and that this milestone will be discussed during ORP's budget briefing to Ecology tentatively scheduled this week.

M-045-62 - ORP stated that this milestone is on schedule for 2015. Ecology asked if M-61 and M-62 are related. ORP responded that the two milestones are currently related, and as a better understanding of funding in FY13 and FY14 is realized, what can be accomplished for the two milestones will be outlined. Ecology asked if there would be enough float in the schedule for M-62 to adjust for any impacts to M-61. ORP responded that it will continue to work with Ecology to outline priorities and discuss which activities could be done in the next few years, given the funding constraints. ORP added that the current focus is on C farm retrieval, and that ORP will pursue whatever can be done for closure activities.

ORP noted that M-62 is listed incorrectly in the TPA monthly summary report as a corrective measures study report, and it should be listed as the implementation plan. ORP stated that it is not known when the M-61 RFI/CMS report will be submitted, and the implementation plan under M-62 will be contingent on submittal of the RFI/CMS report. ORP added that if M-61 is late, then it is likely M-62 will be late as well.

TPA-SST Retrieval and Closure Program:

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M-045-101 - ORP noted that agreement was reached during the Inter-Agency Management Integration Team meeting held on August 27, 2012 that this milestone is complete, and the primary document will be followed through the permit. This milestone will be removed from the TPA monthly summary report.

Issues - ORP noted that the WMA C performance assessment (PA) is being deferred due to funding constraints. ORP stated that currently the PA remains lower on the priority list, and evaluations are ongoing as to whether the PA can be funded in FY13. It was noted that the PA is associated with M-045-82. Ecology asked if there is enough float in the schedule to be able to deliver M-82 on time, given the uncertainty with the budget constraints. ORP responded that if the PA is initiated sometime in FY13, then M-82 can be met, but if the PA slips out to FY14, then M-82 will be impacted.

Ecology asked whether M-045-83 and M-045-84 will be impacted if the PA is not completed on time to meet the commitments for M-045-82. Conversely, Ecology asked if ORP understands the schedule and float well enough to know that M-83 and M-84 can be met if the PA is completed. ORP responded that if the PA can't be started in FY13, the impact to the schedule will be evaluated. Ecology noted its assumption that any one of the milestones can have an effect on other milestones, and if ORP decides to slip one milestone, the decision will affect several follow-on milestones. Ecology requested that the actions carried in the PMM reflect the impact that the upcoming discussions on funding priorities will have on milestones; i.e., the impact on M-83 and M-84 if the schedule for M-82 slips.

Tank in Appendix H. Status (tank 241-C-106) - ORP stated that there were no updates to report.

Tank Retrievals with Individual Milestones (tanks 241-A-103 and 241-S-112) - ORP reported there was no change in status.

CD-SST Retrieval and Closure:

Significant Past Accomplishments - ORP reported that all of the retrieval equipment has been installed in tanks C-101 and C-102, which includes the extended reach sluicing systems (ERSS) and the pumps that are needed. All of the construction will be declared complete this week in C-101 and C-102, and retrieval in C-101 will begin in November 2012, and in December for C-102. Hard heel retrieval was completed in C-104, and the final count in the tank is 191 cubic feet. Ecology requested notification within two hours before retrieval is ended in a tank. ORP

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responded that discussions are already under way between ORP and Ecology to establish the communication process towards the end of retrieval. Once an agreement is reached on the process, it will be presented to ORP and Ecology management for discussion. Ecology stated that it was uncertain what the role of management is regarding the agreement. Ecology also noted that retrieval in C-107 is under way and could be completed before the agreement is finalized. ORP responded that C-107 retrieval will not be completed before the original completion date of October 16, 2012 (see discussion below). ORP stated that C-109 hard heel retrieval was declared complete by the contractor two weeks ago, and the final number in C-109 is 157 cubic feet. ORP reported that the new hose-in-hose transfer lines (HIHTL) between AN06A pit and POR104 valve box were installed and are being used successfully. ORP noted a correction to today's TPA monthly summary that the POR014 valve box should read POR104 valve box.

Significant Planned Activities in the Next Six Months - ORP noted that a retrieval certificate of completion for C-104, C-108 and C-109 will be submitted to Ecology. Construction activity is under way in C-105 to prepare for the dome cut for installation of the Mobile Arm Retrieval System (MARS) vacuum. ORP is continuing to work with its Waste Treatment Plant (WTP) counterparts to evaluate a different professional opinion between using a water jet abrasive technique for dome cutting versus other alternatives. Any addition of abrasives to the tank farm system is of concern to WTP because of the uncertainty with erosion/corrosion in their design criteria. An independent team will start a review the first week in October 2012, and it will either support the continued use of an abrasive or recommend a different alternative. ORP is also looking at other dome cutting alternatives to ensure that the alternatives have been evaluated for C-105. In the meantime, ORP is exhausting all other dry retrieval method alternatives that may be available other than the MARS vacuum system. Ecology asked how long the process will take to decide on the dome cutting method. ORP responded that the length of the process cannot be predicted, and that it is an important aspect for ORP to work through the safety culture process.

ORP reported that C-107 was experiencing leaking in the rotary union. The hex nuts were tightened, and the leaking was reduced to a slight dripping. During operations in C-107 last week, the AN-106 pump began to experience an hydraulic leak within the double-shell tank (DST). There are limitations to the amount of hydraulic fluid that can be added within a tank, so operations were halted to evaluate the issue with the pump. A camera will be installed in AN-106 tomorrow (9/26/12), and a decant from AN-106 to AP-104 is planned for this weekend in an attempt to determine where the leak is and whether the pump can be repaired or needs to be

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replaced. ORP reported that retrieval in C-107 is 79.1 percent complete, and there are approximately three to four weeks of operation remaining on the MARS sluicing if the pumps can be kept operating.

ORP referred to a letter that was sent to Ecology on September 4, 2012, requesting agreement to forego a third retrieval technology for C-108, and asked if Ecology had an update to provide today. ORP noted that it is seeking a decision by the end of the fiscal year (9/30/12) so that plans could be built into FY13 if another technology needs to be pursued for C-108. Ecology responded that it likely won't be objecting, and that the final decision is with Ecology upper management and the attorney. Ecology noted that a review of ORP's letter is planned tomorrow (9/26/12). Ecology expressed appreciation for the field work that was done in completing retrieval in the two tanks.

CD-Tank Waste Retrieval Work Plan (TWRWP) Status - WRPS stated that there were no changes to report on the TWRWPs. It was noted that Ecology recommended including revision numbers on the RPP numbers, and that recommendation will be implemented in next month's summary report.

242-A Evaporator Status - ORP reported that upgrades are being completed to the evaporator, and the campaigns planned for FY13 are on schedule. Discussion is under way to determine whether back-to-back campaigns should be done as planned or whether a short break should be taken to conduct preventative maintenance and check equipment. Ecology asked if an earlier start to the campaigns has been considered or is feasible. ORP responded that an earlier campaign is not being considered at this time. The team involved with upgrades to the evaporator and the operational readiness team are working to ensure the evaporator will be ready for startup.

Ecology asked if the campaigns are necessary to maintain retrieval. ORP responded that the DSTs are given a water budget for how much water per tank can be used, and when the evaporator campaigns are planned, the amount of water used and the DST space available are taken into account. ORP noted that there is close integration among the DST, tank retrieval, and evaporator personnel, and weekly meetings are held. ORP added that the evaporator campaigns are not the only consideration in managing DST space. There may need to be additional transfers between DSTs to make room and/or changes in plans for the receiver tanks. WRPS noted that the DST space needs to be watched carefully to achieve retrieval. Ecology asked if the FY14 retrieval deadline would be jeopardized in the event the evaporator campaigns aren't done as planned in FY13, and whether there should be concern regarding the evaporator schedule. It was noted that

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the appropriate personnel were not present to provide answers today. An action was established for ORP to schedule a meeting with Ecology and the DST, retrieval and integration personnel to discuss the water balance in the evaporator and how it plays into DST emergency pumping space.

Ecology referred to the potential leak in tank AY-102 and the potential need to pump out that tank. Ecology noted that AY-102 contains approximately one million gallons, and asked whether the evaporator schedule would be sufficient to accommodate the extra million gallons and if the retrieval schedules could still be met as agreed to in the CD. ORP indicated that Ecology's questions about AY-102 may be answered in phases, and ORP will make an effort to provide Ecology with answers.

Ecology asked if the operational readiness team for the evaporator will conduct a failure, modes and effects (FME) analysis. Ecology also asked if the evaporator team is considering what is necessary to determine the probability of success for the scheduled campaigns and for future maintenance aspects. ORP stated that it could not answer the question regarding an FME analysis, but the team will be conducting a review of all the risks. Ecology requested an action to have a discussion with the evaporator team after they have conducted their risk analysis; and following the evaporator runs in FY13, to have a discussion regarding what worked well and what didn't work well with the runs and what the recovery actions and changes in plans might be to ensure a higher probability of success with future runs.

M-045-91, SST Integrity Assurance:

ORP presented meeting minutes for signature regarding the first HIHTL meeting that was held August 29, 2012, and suggested entering the minutes into the AR. Ecology took the minutes and will do an additional review and then return them to ORP. It was noted that a second HIHTL meeting was held in September 2012, and a third one is scheduled in October 2012. ORP referred to the Ecology letter requesting disposal records for the old HIHTL that were removed, and stated that once the remaining issues are resolved in meetings, a formal response with the disposal records attached will be provided to Ecology. ORP also suggested attaching all the meeting minutes from the HIHTL meetings to ORP's response letter. ORP's response letter with attachments will be entered into the AR. ORP noted that an informal delivery of the HIHTL disposal records was provided to Ecology.

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ORP provided an update on the delay in removing one of the HIHTL. A hose was scheduled for removal at tank S-102 in S farm this fiscal year, and it was delayed into the first part of FY13 (October 2012). ORP stated that more detailed information is available, and Ecology suggested sending the information via email. ORP reported that removal of the hose in C farm (200 series) was originally scheduled for FY13, but the date was accelerated and it was removed in FY12. ORP stated that the disposal date was September 20, 2012. Ecology noted that a request had been made to observe the next hose removal. ORP responded that the hose removal in C farm was probably done before Ecology's request, and that Ecology will be notified so it can observe the hose removal in S farm.

ORP reported that the rebar was removed from the C-107 dome plug, and the rebar has been packaged for shipment and testing. ORP stated that planning for the sidewall coring of A-106 has been restarted, and the field work is planned for FY13. Ecology requested notification when the field work is under way so that the work could be observed. Ecology referred to commitments made during the data quality objective (DQO) to follow some of the flow sheets for the A-106 sidewall coring, and that there were decision points for Ecology to make through the planning portion. Ecology suggested scheduling a meeting to review the DQO commitments. ORP agreed to schedule a meeting within two weeks to discuss FY13 work related to SST integrity, and will email Ecology the meeting schedule.

In Tank Characterization and Summary - ORP stated that a sample from the annulus of AY-102 will be taken from one riser this week and another sample will be taken from the other riser next week. Ecology asked if the crystals that are on the upper launch will be sampled. ORP responded that crystal sampling on the upper launch is not part of the sampling plan, and the plan is to get samples from various piles or areas on the floor of the tank. Ecology noted that ORP had planned to develop the DQO for AY-102 independent of Ecology, and ORP would then provide Ecology a briefing. ORP will follow through on setting up a briefing with Ecology

Tank Operations Contract (TOC) Overview - ORP provided an overview of the cost and schedule variances. Ecology asked if the three videos associated with base operations are part of the integrity program. ORP stated that the videos are part of the DST integrity program. Ecology asked if the videos will be completed within the scheduled rate, noting that the videos provide preliminary information for developing the DST integrity plan and the videos have been delayed. ORP responded that the three videos will be completed within the overall five- to seven-year time frame.

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Ecology inquired about line item 5.04 for supplemental treatment. ORP responded that it is the line item number in the contract that describes the scope for the supplemental treatment facilities design/build. ORP added that supplemental pretreatment and immobilization, including transuranic (TRU) waste retrieval, are part of that section of the contract. ORP provided a brief history of the project in FY11 and FY12. The conceptual design report and other documents necessary to meet DOE-Headquarters critical decision one (CD-1) step were issued for the supplemental pretreatment project in FY11. The documents were reviewed and commented on by headquarters and the Defense Nuclear Facilities Safety Board (DNFSB), but there was no funding in FY12 to continue the supplemental pretreatment project and it was shelved. In FY12 there has been minimal work on supplemental immobilization or the TRU tank retrieval and packaging opportunities. In FY12, prep work was done to kick off the two-year, one-time supplemental treatment technology report effort in FY13.

Ecology suggested that the milestone associated with the one-time, two-year supplemental treatment technology report should be considered during the budget priority meeting this week between ORP and Ecology, noting that the report does not hold value for Ecology. ORP agreed that the production of the report should be in the budget priority discussion, but that decision would occur at a higher level of management.

Acquisition of New Facilities; M-90-00; M-47-00:

ORP noted the status of milestone M-090-11 is to be missed and that M-047-06 was missed, with more detail provided in today's monthly summary report. ORP stated that it considers M-090-11 to be in negotiation, based on the discussions that were started in August 2012 between ORP and Ecology to determine whether progress can be made on these two milestones. Ecology requested meeting with ORP in mid-October 2012 to discuss M-090-11 and M-047-06, and ORP agreed to schedule a meeting.

Significant Past Accomplishments - ORP noted that the conceptual design reports for both the Interim Hanford Storage and Secondary Liquid Waste Treatment project have been received, but there is no funding in FY13 to continue with the projects. When funding becomes available, a more detailed review will be conducted of the conceptual design reports and the accompanying documents that make up the CD-1 step.

Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45:

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ORP stated that issue No. 2 on the agreements, issues and actions list should be moved into the actions category. ORP noted that the schedule that Ecology requested is still in draft form for the path forward for a deliverable of the System Plan milestone, specifically the submittal of a one-time tank waste supplemental treatment technologies report if a supplemental treatment technology is proposed other than a 2nd LAW (M-062-40ZZ). ORP stated that one of the items that is being worked is a form of risk assessment for determining the waste form performance of the different technologies for immobilization. ORP's intent is to be consistent with the Environmental Impact Statement (EIS), and to identify and fill in any gaps in the EIS as opposed to issuing a separate risk assessment process. DOE-RL is currently at headquarters seeking approval of the EIS. At Ecology's request, ORP committed to providing a schedule status at the next PMM on October 23, 2012.

Ecology asked if the work that is required for M-062-40ZZ, such as updating the EIS, will be in the schedule discussion. ORP responded that it will be part of the discussion. ORP stated that some of the activities that will factor into the one-time tank waste supplemental treatment technologies report include: the alternatives analysis package that was started in FY11 to provide data on the four main technologies that will be updated; technology development work on technetium removal in the tanks; further technology development on the Cast Stone waste form with simulated and actual Hanford waste samples. ORP stated that it is not doing further technology development on glass, steam reforming or bulk vit, but it already has substantial data in those three areas. Ecology noted that the EIS released the supplemental analysis last week with all of the updated data, and asked if the activities that ORP outlined will provide data beyond what was released in the EIS. ORP stated that the data date in the supplemental analysis was February 8, 2012 and locked in the data as of that date; however, the limited technology development areas that will start in FY13 will augment what is in the EIS and there will be some new information. Ecology asked if the new information has a process for testing that will be implemented in the schedule, and ORP concurred. WRPS made a note for the record that the correct terminology is EIS supplement analysis, not supplemental analysis.

System Plan - ORP reported that there was no new information on the system plan.

Waste Treatment Plant

ORP reported that there was a reduction of about 200 full-time equivalent (FTE) employees as compared to last month, and the majority were in the non-manual ranks. ORP's intent is to

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continue to stabilize the construction work force. Ecology asked about the effect on permitting with the ebb and flow in the work force, noting that permitting activity has slowed considerably. ORP responded that the reduction in work force is obviously one reason affecting permitting activities, but the main issue is the level of engineering work in Pretreatment (PT) and the High Level Waste (HLW) facility has reduced dramatically, so the amount of permitting activities will be down for a period of time as well. Ecology stated that when ORP has completed its rebaselining and setting priorities, it would be helpful to be informed as quickly as possible so that Ecology could align with the pace of activities. ORP acknowledged Ecology's request, noting that the rebaselining will be complete at the end of December 2012 for the Low Activity Waste (LAW) facility, Balance of Facilities (BOF) and LAB only. Ecology asked if ORP is projecting into FY14 for PT and HLW. ORP responded that the direction given to Bechtel was to project into FY14 for PT and HLW primarily in terms of resolving technical issues, with some discussion regarding ongoing construction activities, mostly limited to HLW. Ecology asked if it was fair to consider, through FY13 and possibly into FY14, that construction will be at a lower rate, resulting in permitting and design packages also remaining at a lower rate. ORP concurred that that was a fair assumption.

ORP reported that the 37-foot structural steel milestone for HLW has been completed. Bechtel is in the process of preparing their data package for completion to submit to ORP for review and verification.

Issues - Ecology noted the technical issues listed, and asked if a summary regarding corrosion/erosion in piping and vessels was available to provide more detail. ORP responded that it would follow up with a more detailed discussion during the individual facility presentations for PT and HLW. Ecology added that the technical issues are listed, but no detail is provided. ORP responded that the monthly one-page cut sheets provided to Ecology cover the status on the technical issues, and Ecology could use the cut sheets as a focus to have a dialogue with ORP. ORP referred to the direct communications that are under way between the Secretary of Energy and the state governor regarding the technical issues in PT and HLW, and at this time it is unknown what the impacts and/or results of those discussions will be. Oregon Department of Energy (ODOE) stated that it was difficult to grasp the scope of the technical issues. ORP stated that there are plans to resolve the technical issues, but the plans may change due to the high level of discussions with the Secretary of Energy and the technical team (S-1 team) that he has assembled.

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ORP noted that a corrosion/erosion action plan was received from Bechtel that describes the technical pathway for collecting data and information to reach resolution and ensure that the design will survive for 40 years. ORP noted that Ecology has been provided Rev. 1 of Bechtel's action plan, which was issued in August 2012. ORP added that the Rev. 0 action plan was issued previously and ORP, the DNFSB and an independent Bechtel team reviewed and provided comments, which were incorporated into Rev. 1.

Ecology referred to the phrase in the technical issues "among others," and expressed concern about other issues that are not being reported. ORP responded that official notification has been made to Ecology and the State of Washington in terms of potential risk to the Consent Decree (CD) milestones, and those discussions are ongoing. ORP added that there are numerous issues that are being worked through the design/build process, and the technical issues that are listed are the major issues that are causing impacts and that ORP is directing its focus on. ORP noted a positive point that through the S-1 team review and other reviews over the last year, no new technical issues have been identified. ORP added that there are a series of level 1 findings that are being worked through resolution, and noted the level 1 findings are not technical issues, but are potentially tied to some of the issues in terms of getting to closure of the technical issues in a timely manner. Ecology expressed confidence that it had the information needed regarding technical issues via the level 1 findings, the Rev. 1 corrosion/erosion action plan, the monthly cut sheets, and the 2010-2 DNFSB recommendations and ORP's responses.

Pretreatment (PT) Facility

ORP reported that construction is shut down in PT, with the exception of placing a slab over the south tunnel where the transfer line comes into PT. ORP added that a significant amount of procurement has been in suspension. Bechtel is working on the rebaselining for FY13 and FY14 for PT and HLW and the priorities associated with the rebaseline. The key work in PT is focused on the technical issues resolution, which includes the hydrogen in piping and ancillary vessels (HPAV). ORP noted that the HPAV is more an implementation of the path forward that has always been in place, and packages are being prepared for several quantitative risk analyses (QRA). One QRA package is in review for acceptance and then will be forwarded to the DNFSB for review. The medium scale testing has been completed, and the test report has been issued for the process vessel vent (PVV) to determine the entrainment factor coefficient. A report is being prepared compiling the small scale test report and the medium scale test report which will provide a complete analysis of what the entrainment factor should be. Ecology noted there were different

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results from the two tests, and expressed concern that the distinction and the value between the different scale factors would be lost. ORP responded that the analysis is being done with the raw data, which will be preserved, and both test results will still be available. Ecology expressed concern that the analysis will be bounded in such a way that the data will be lost. ORP stated that the small scale and medium scale test reports have been issued, and indicated that the reports could be used to validate the analyses are within bounds.

Ecology asked about the modification needed to the PVV system design. ORP responded that the tests are to determine the entrainment factor coefficient, and the modification to the PVV system design has not been determined. ORP noted that the test results are pointing to a relatively minor modification of the system. After the safety evaluation is completed and accepts the engineering solution for the entrainment factor, then the system design with modifications can move forward. Ecology asked if the procurement lead time and fabrication will be extensive, even with minor modifications to the system. ORP responded that the procurement for equipment has already gone forward, and very little change is anticipated with the modifications.

ORP stated that the implementation plan for the preliminary design safety analysis (PDSA), which is scheduled to be issued at the end of September 2012, will describe the process for updating the PDSA to align with the completed system design. ORP noted that the PDSA was generated before many of the technical issues were identified and some of the system design was completed. ORP stated that revision to the 2010-2 implementation plan (IP) will likely be impacted by the S-1 team's recommendations, requiring more updates to the IP. The DNFSB is being notified that issuance of the IP will be delayed. ORP noted that a decision has not been made yet, but the consistent direction is to not rely on the use of computational fluid dynamics (CFD) as part of the vessel confirmation as a primary tool. If the decision is made to not rely on CFD, that will require some updates to the IP. ORP stated that the S-1 team review is having direct impacts on the strategy for large scale testing, which will also require updates to the IP.

Ecology referred to page 11 in the CD monthly summary and asked how the calculations for the hydrogen generation rate (HGR) could be completed before the verification and validation (V&V) of the software is done. Ecology noted that if the V&V turns out negative, the calculations would have to be rerun. ORP agreed, adding that there was a rationale for doing the calculations before V&V. ORP noted that the DNFSB had requested some examples of applications as part of their review process, but the calculations and data are not being used until the V&V is done. ORP took

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an action to provide Ecology with the rationale for doing the HGR calculations before completing the V&V of the software.

Significant Planned Actions in the Next Six Months - Ecology noted that with the impacts from the S-1 team review and recommendations, submittal of the technical scaling selection basis document and the 2010-2 implementation plan are questionable in the next six months. ORP indicated that that was a fair statement, although the March 2013 time frame is feasible for submittal.

High Level Waste

ORP stated that concrete and steel construction are still proceeding in HLW, but other construction is reduced for now. The direction that ORP has given Bechtel with their rebaselining is to identify the construction and engineering activities that Bechtel proposes continuing within HLW, although the rate of those activities will be substantially reduced. ORP noted that the request for Bechtel to identify construction and engineering activities is the result of disconnects between the nuclear safety licensing arena and the resolution of technical issues and the design. The intent is to understand the risks associated with continuing that construction versus the potential for rework or modification of those particular systems.

Significant Past Accomplishments - Ecology requested confirmation that the HDH vessel 1 installed on the trolley in the canister rinse tunnel is vessel 1, and identification of which decontamination vessel was installed in the canister rinse tunnel.

A discussion was initiated regarding the status of the deficient welds on RLD vessel 8 (RLD-8). Bechtel has conducted a root cause analysis and developed a number of actions plans, which ORP is reviewing. Bechtel is also in the process of determining what kind of weld repair or rework needs to be done. Ecology noted that the process for resolving the weld issue is taking a long time. ORP agreed that it has been a long process, but there are many deficiencies associated with the welds to be addressed. ORP added that the vessel is N stamped and the repairs have to be NQA-1 certified.

As part of Bechtel's extent of conditions, a weld review of all of the vessels will be done. Ecology inquired about the completion date for the extent of condition review. ORP responded that the review will take several months. Ecology asked if the extent of condition review will be a review of the weld records or a physical review of the welds. ORP stated that the review will cover both weld records and a physical review of the welds. Ecology asked if the PT vessels are

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affected by the weld issue. ORP responded that there are five to seven PT vessels on hold at the vendor shop due to the mixing issue, but they will also be reviewed through the extent of condition. ODOE asked what the review of vessels that have been installed in HLW has shown. ORP responded that a number of vessels have been looked at and a few deficient welds have been found. Ecology stated that deficient welds in several vessels appears to reflect a major breakdown in the QA process. ORP responded that that is why the extent of condition is being conducted and a review of all the vessels is being done. ORP added that vendors' ability to perform NQA-1 is a national and international weakness.

Ecology asked what ORP is doing to ensure, through procurement, acquisition and QA, that the vendor quality assurance and the Hanford community quality assurance oversight is raised to the level that these issues don't occur. ORP responded that Bechtel has instituted a reliability verification process by identifying weaknesses in terms of quality processes. A major investment is being made by placing 150 to 200 people to inspect equipment and designs already in place to ensure the prerequisite quality is there, and to identify if it is not and to correct it. ORP has revamped its quality assessment program, and two vendor shops have been reviewed and assessed in the last month and a half. Ecology asked if ORP has the confidence that the vendors will be sufficiently trained to understand what the current benchmark it is. ORP responded that the conclusion is it cannot rely on the vendors to be able to perform, and it is necessary to be more intrusive in terms of monitoring, demanding performance, and then inspecting again.

ODOE asked about the 150 to 200 people who are being placed to assist in quality assurance. ORP responded that most of the people are focused on validating what has been installed or in place to ensure the configuration of the equipment and the design materials, based on what it is known or has been learned. ORP stated that Bechtel's corrective action plans will not be accepted until ORP is convinced, through the causal analysis and the corrective action plans, that issues or deficiencies will not be identified after Bechtel declares acceptance of equipment. Ecology asked if a random sample assessment of Bechtel's work will be done. ORP responded that it will be done, along with a separate oversight review. ODOE noted a fundamental component is that the companies allowed to bid on these contracts need to have the ability to meet the standards required for fabrication. ORP responded that the vendor in England has been licensed and supplying nuclear plants for 50 years, but their ability to perform has atrophied over time.

ORP noted that the weld issue is associated with vendor-delivered equipment and the QA document process. ORP added that there is a very active monitoring program onsite in terms of

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all the construction welds. Ecology asked if the root cause analysis will be the basis for the corrective actions. ORP responded that it will be. Ecology requested a copy of the root cause analysis when it is completed, and ORP agreed to provide a copy. Ecology questioned the process that allowed RLD-8 to be shipped onsite. ORP reiterated that RLD-8 is still under vendor control and has not been accepted by ORP. A team had been sent to the vendor in England to review the RLD-8 paperwork and identified the issues, which led to the identification of the weld issues. The vessel was shipped for the vendor's convenience, and the repair to RLD-8 will be done onsite at the vendor's expense.

Low Activity Waste Facility (LAW)

ORP provided an update on the recent activities in LAW. Ecology asked about the status of the rebaselining for LAW, BOF and LAB (LBL). ORP responded that Bechtel's proposal for rebaselining has been received, but ORP will not conduct an in-depth evaluation of the proposal until the quality development packages (QDP) are submitted. The QDPs are expected to be received within 45 days and contain the details starting with estimates, work control processes and critical path schedules. ORP noted that Bechtel is in compliance per ORP's letter of direction, and it is following the time frame outlined for submittal to ORP. Ecology asked if construction will continue during this rebaselining effort. ORP stated that Bechtel is moving on with construction consistent with the direction to meet the Consent Decree milestone of construction substantially complete by 12/30/14. ORP added that the rebaselining is a replanning effort to adapt to future funding, but construction has not slowed down in LBL during the replanning. Ecology inquired about the hose-in-hose and direct feed options. ORP responded that those options are not within the scope of the WTP project but are within the tank farms scope. ORP has directed Bechtel to make changes in their replanning to allow for direct feed if the decision is made, and that activity is estimated in the replan, but the hose-in-hose and feed delivery aspects are not in the replan.

Ecology asked about the grouting underneath the melter in the melter bay. ORP explained that the plates at the head of the melter didn't have a tight enough tolerance, so leveling plates were put down which created an edge. The concrete was scabbled and the area is being grouted to make a smooth transition to the leveling plates. When the grout cures, the floor area in front of the leveling plates will be re-epoxyed.

Balance of Facilities (BOF)

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ORP provided an updated version to pages 19 through 22 on today's CD monthly summary handout, and the update will be included before submittal to the AR and electronic distribution. The current focus in BOF is completion of the steam plant to meet the milestone for 12/31/12 and energization of switchgear building 87. ORP stated that there are no significant challenges foreseen with meeting the steam plant milestone. Ecology asked about a final walk-down of the steam plant. ORP responded that the process for acceptance is geared toward evaluation and validation of design and system completion versus a walk-down of the facility. A review of the interactions between BOF and other facilities will also be done. A punch list was generated from the three-week walk-down of building 87, and the items that are required for completion prior to acceptance by the startup organization are being worked.

Analytical Laboratory (LAB)

ORP provided an update on the valve issue. During fabrication of the valves at the vendor, there was concern that a soft component within the valves was potentially damaged due to high temperature. Several of the components have been changed out and inspected, and none of the components have shown any damage. A procurement process was initiated for all the parts to have on hand if necessary. ORP reported that one of the main challenges in LAB are RLD vessels that had previously been identified as needing weld repair, and the weld repair process is under way. The other challenge is associated with a seismic evaluation that is being redone on story drift. ORP noted that these challenges are not directly tied to the LAB construction substantially complete milestone, but they are a part of the major systems that are being evaluated.

ORP stated that delivery of the milestone completion package is anticipated by late November 2012. Ecology inquired about the criteria for substantially complete, noting that the LAB is 56 percent complete overall. ORP responded that LAB substantially complete is not from percentage-based perspective, but is associated with analytical methods development and completion as well as the analytical equipment. The analytical equipment is not installed until the facility is ready to start doing analysis and processing samples. ORP noted that the Consent Decree has a detailed description of the definition of substantially complete, and it lays out very clearly what the inclusions and exclusions are.

3.0 Agreements, Issues, Actions

Issue No. 2 - Per ORP's request, this issue will be moved to the actions column.

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4.0 Key Documents List

An updated key documents list was provided.

5.0 Upcoming Meetings

- The next ORP TPA PMM is scheduled for Tuesday, October 23, 2012.

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Attachment A: Agreements, Issues and Actions

(3 pages including this cover sheet)

ORP/Ecology TPA and CD Agreements, Issues, and Actions

September 2012

Agreements:

1. ORP and ECY have entered into an IAMIT Agreement to forego further revisions of the M-45-101 primary document, Component ID and Closure Strategy, on 08/24/12.
2. ORP will continue to meet with ECY to discuss funding and work priorities per TPA Paragraphs 148/149 process.
3. Per an ECY standing request, ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future Semi-Annual CD Reports (see CD Section IV-C-1-e, page 8).
4. The ORP and ECY PMs have developed, signed, and entered an outline for the CD Tank Completion Certification into the TPA Administrative Record. Senior management will continue to be briefed if any follow-on actions arise.

Issues:

1. Ecology has a concern with WTP data being reported exclusively in the CD Monthly Summary Report as the current CD reporting process does not allot ECY early review time of the CD Monthly Summary Report. ORP and ECY have raised this concern for discussion at the Senior Management levels.
2. Ecology would like to see a detailed schedule or timeframe for the path forward for a deliverable of the System Plan milestone – specifically TPA Milestone M-062-40ZZ, the submittal of a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, which is due on 10/31/2014.

Actions:

1. ORP is incorporating comments for the change notice for M-045-92B specific to monitoring plan, scope, and schedule for TY Barrier. Actionee: Chris Kemp/Susan Eberline. **Open.** ORP met with Ecology on 08/28/12 to capture all comments. Final comments have been incorporated with a TPA change notice.
2. ORP will brief ECY on soil sample analysis from direct push for the C-101 and C-104, including discussion of vadose zone data for the C-101 TWRWP, post May 2012. Actionee: Chris Kemp/Susan Eberlein. **Closed.** Data was transmitted to ECY via ORP letter 12-TF-0035 on 09/07/2012.
3. ECY will provide approval or other action on the M-045-58 workplan. Actionee: Jeff Lyon. **Open.**
4. ORP is working on an ECY request to revise IQRPE reports for ARRA projects. Actionee: Jeremy Johnson. **Open.** A meeting to review the IQRPE's disposition of ECY's comments was held on 05/24/12. ORP transmitted letter 12-TF-0025 with several revised reports.
5. ORP will provide information to ECY (Lyon) on Mixer Pump work for Waste Feed Delivery. Actionee: Glyn Trenchard. **Open.**
6. ORP and WRPS will develop and provide to ECY a C-108 Lessons Learned for use in future caustic dissolution activities. Actionees: Chris Kemp/Jeff Luke/Susan Eberlein. **Open.**

ORP/Ecology TPA and CD Agreements, Issues, and Actions

September 2012

7. Per 12-NWP-071, ECY anticipates the following actions are necessary to support the completion of the RCRA RFI/CMS Study work:
 - a. ORP will release the revisions of RPP-39114 and RPP-38777 as approved.
 - b. ORP will complete work identified in the work plan.
 - c. ORP will provide the date for submittal and completion of:
 - i. The validation, documentation, and evaluation of the analytical data from FY2010 and FY2011
 - ii. The following reports:
 1. Tc-99 laboratory interferences
 2. Evaluation of the organic detects in WMA C groundwater wells
 3. Latest trending of groundwater contaminants at WMA C groundwater wells
 4. Evaluation of the Quality Assurance/Quality Control and holding time issues associated with the 222-S shutdown in summer of 2011
 - d. ORP will submit the revised Hanford C-Farm Leak Assessment Report (RPP-ENV-33418)

Actionee: Chris Kemp. **Closed.** Status of these items and several reports were transmitted via a letter 12-TF-0035 on 09/07/2012. If there are any follow-on items, comment resolution, or further discussion, these items may be captured in a new action item(s).

8. ORP will setup a meeting with someone from 222-S Labs to brief Ecology on sampling and process/tracking information at the lab. Actionee: Jeff Cheadle. **Open.**
9. ORP will setup a meeting to discuss C-108 leeching tests/sampling. Actionee: Chris Kemp/Mike Barnes. **Open.** A meeting was held on 09/03/2012 to discuss the C-108 leeching tests/sampling. ORP has signed meeting minutes and provided to Ecology for their signature/concurrence.

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Attachment B: List of Attendees

(3 pages including this coversheet)

Sign In Sheet
ORP TPA PMM Meeting
September 25, 2012

[illegible]

Sign In Sheet
ORP TPA PMM Meeting
September 25, 2012

NAME	ORG	MSIN	PHONE
Michelle Hendrickson	Ecology		372-7970
JARED MATHEY	Ecology		372-7949
Jeffery J. Lyon	Ecology		509 5391948
DOE	DOE		376-4434
Dan McDonald	ECY		372-7988
Stacy Cimin	ODOE		(541) 240-0161
JOE CAGGIANO	ECOLOG		372-7915
Mike Barnes	Ecology		372-7927
Susan Eberlein	WRPS		372-1689
Steve Killoy	WRPS		727-7804
Jeff Luke	WRPS		376-8629
Carol Slack	WRPS		373-7241
Ellen Mattlin	DOE		376-1900
Jason Young	DOE		376-0375
Robbie Bigani	ECY		372-7884
Tracy Gao	ECY		372-7901
Wahed Abdul	DOE		438-0455
Delmar Noyes	DOE		376-5166

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Attachment C: Presentation Materials

ORP TPA Project Summary
(22 pages)

And

ORP Consent Decree Project Summary
(23 pages)

And

Working ORP Key Documents List
(3 pages)

(49 pages including this coversheet)

FINAL

Office of River Protection
Tri-Party Agreement
Monthly Summary Report
September 2012



Office of River Protection
Tri-Party Agreement Milestone Review
September 2012

Page	Topic	Leads
1	Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon
2	Single-Shell Tank Corrective Action; M-45, -50, -60	Chris Kemp / Jeff Lyon
4	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, <ul style="list-style-type: none">- Tank in Appendix H Status- Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
6	242-A Evaporator Status	Ron Koll / Jeff Lyon
7	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson
8	In Tank Characterization and Summary	Billie Mauss / Michael Barnes
10	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon
15	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
16	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
17	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
18	WTP Overall TPA Summary and Milestone Status; M-62-01	Delmar Noyes / Dan McDonald

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2012				
M-062-40B	Submit System Plan	10/31/2011	10/21/2011	Completed
M-062-49	Sub. Report to ECY Demonstrating WTP Design Meets Vit. Criteria	10/31/2011	10/27/2011	Completed
M-045-91B	DOE Submit a Sampling and Analysis Plan to Ecology	12/30/2011	9/20/2011	Completed
M-045-92F	Meet Yearly on Performance of Barrier	12/31/2011	11/30/2011	Completed
M-045-91G-T02	Provide AOR Final Doc. for SSTs on 750,000 Gallon Tanks	1/31/2012	11/18/2011	Completed
M-062-01X	Submit Semi-Annual Project Compliance Report	1/31/2012	1/27/2012	Completed
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	3/31/2012	6/27/2011	Completed
M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05	3/31/2012	03/12/2012	Completed
M-045-92M	Barrier 2 Design/Monitoring Submittal to Ecology	6/30/2012	5/19/2011	Completed
M-047-06	Comp. Neg's of No More Than 2 Interim Milestones	6/30/2012	Missed	Missed
M-062-01Y	Submit Semi-Annual Project Compliance Report	7/31/2012	7/27/2012	Completed
M-045-56H	Meet Yearly to Discuss Interim Measures	7/31/2012	6/21/2012	Completed
Fiscal Year 2013				
M-045-20	Submit Interim Measures Investigation Work Plan and TPA Chg Pckgs for M-045-22 Target Dates	12/31/2012		On Schedule
M-090-11	Comp. Neg's No More Than 2 Canister Storage Fac. Const. Int. M/S	12/31/2012		To Be Missed
M-062-01Z	Submit Semi-Annual Project Compliance Report	1/31/2013		On Schedule
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	1/31/2013		At Risk
M-045-21	Submit Sampling and Analysis Plan for 241-TX Tank Farm	3/31/2013		On Schedule
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	5/31/2013		On Schedule
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	5/31/2013	05/02/2012	Completed
M-045-91F-T02	Provide Report of Liner Failures for SSTs	7/31/2013		At Risk
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	7/31/2013		At Risk
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2013		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	9/30/2013		At Risk

WBS 5.2 Retrieve and Close Single Shell Tanks

M-045-20, Submit Interim Measure Investigation Work Plan to Ecology, Due: 12/31/12, Status: On Schedule. ORP will submit to Ecology for review and approval an interim measures investigation work plan for to vadose zone characterization at 241-TX Farm and 241-U Farm, and soil desiccation/contaminant removal proof-of-principal test at 241-SX Farm. The work plan will also be submitted with a TPA Change Package to establish milestone due date for M-045-22 and target dates for submittal of three secondary documents, see M-045-22-T01, -T02, and -T03. Added per TPA change package M-45-12-04.

M-045-21, Submit for Review and Approval a Sampling and Analysis Plan to Ecology for Soil Samples for 241-TX Tank Farm Investigation, Due: 03/31/2013, Status: On Schedule. Further description of this SAP will be provided in the Work Plan submitted under M-045-20. Added per TPA change package M-45-12-04.

M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule. Added per TPA change package M-45-12-04.

M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule. Added per TPA change package M-45-12-04.

M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule. Added per TPA change package M-45-12-04.

M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule. This ORP/Ecology decision point will determine whether to continue with soil desiccation/contaminant removal testing and other interim measures, and if remaining work in Milestone M-045-92 should be modified. Added per TPA change package M-45-12-04.

M-045-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan, Due: 12/31/2008 Status: Complete. The outstanding issues involved integration of RCRA and CERCLA requirements, and the definition of a schedule for future RFI/CMS Work Plan development and implementation. With the development of the RCRA/CERCLA Integration White Paper (under M-045-80), it is now understood that the path to soil corrective measures implementation involves a modification to the RCRA Permit for SST Closure, and a ROD to address the CERCLA requirements. In addition, modifications to milestone M-045-84 and M-045-85 have now been made to explicitly define the requirements for schedule development for future RFI/CMS Work Plans, RFI/CMSs and Corrective Measures Implementation Plans. Thus all outstanding issues for the M-045-58 deliverable have been addressed, and this milestone may be considered closed. Ecology is preparing a letter on this milestone. After this deliverable is closed via Ecology's letter, future updates will be tracked on the ORP Key Documents List.

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST WMAS (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures), Due: TBD, Status: On Schedule

M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/2014, Status: On Schedule

M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Report for WMA C, Due: 06/30/2015, Status: On Schedule

M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers), Due: 09/30/2017, Status: On Schedule. This milestone date has been modified according to M-45-12-04 and the decision to move forward with construction/design of additional barriers dependent on discussions per M-045-22.

M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm Due: 10/31/15, Status: On Schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3 Due: 06/30/15, Status: On Schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

Significant Past Accomplishments:

- Automated data collection system for T-Farm interim barrier monitoring continues gathering data.
- Automated data collection system for TY Interim Barrier monitoring continues gathering data.

Significant Planned Actions in the Next Six Months:

- Perform planning for Fiscal Year 2013 Interim Measures activities.
- Publish results of evaluation of barrier monitoring data, and recommend changes to future monitoring plan for TY barrier.
- Perform verification and validation of the laboratory analysis of direct push soil samples previously obtained in C farm.
- Provide the Work Plan for interim measures for M-045-20.
- Initiate field work under the M-045-20 work plan.

Issues:

Initial planning for FY2013 shows that continued constraints may affect out-year milestones, including M-45-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/2014.

SST Retrieval and Closure Program

M-045-101, Submit to Ecology as a primary document a report on all catch tanks and associated pipelines in the SST System Part A, Due: 12/27/2010, Status: Complete. Document transmitted from ORP to Ecology via letter 10-TPD-176 on 12/28/2010. Comments were transmitted from Ecology to ORP on May 27, 2011, via letter 11-NWP-048. ORP requested one extension to the comment resolution period to December 5, 2011. Resolutions have been identified for all comments and the RCRs and redline provided to Ecology on 11/14/2011 with an extension date for Ecology response of March 15, 2012. Ecology and ORP met in May, June, and July identified a path to resolve remaining comments. ORP and Ecology entered into an IAMIT Agreement to forego further revision of this document on 08/27/12.

M-045-82, Submit complete permit mod requests for Tiers 1, 2, & 3 of the SST, Due: 9/30/2015 Status: On Schedule

M-045-84, Complete negotiations of TPA interim MS for closure of second WMA, Due: 1/31/2017, Status: On Schedule

M-045-83, Complete the closure of WMA C, Due: 6/30/2019, Status: On Schedule

M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs, Due: 1/31/2022, Status: On Schedule

M-045-70, Complete waste retrieval from all remaining SSTs, Due: 12/31/2040, Status: On Schedule

M-045-00, Complete Closure of all Single Shell Tank Farms, Due: 1/31/2043, Status: On Schedule

M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: TBD (12 months after retrieval certification), Status: On Schedule

Significant Past Accomplishments:

- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next Six Months:

- See discussions above and related discussions in Consent Decree report.

Issues:

USDOE is deferring the final numeric modeling supporting the WMA C performance assessment to 2013 due to budget constraints in 2012. Impacts of this delay are being incorporated into the critical path schedules. Initial budget guidance for FY2013 will not support continuing the WMA C-PA in 2013. Impacts on individual milestones will be evaluated and presented through the TPA Paragraphs 148/149 process. ORP intends to meet and discuss the path forward with Ecology.

Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria

Tank 241-C-106

Significant Past Accomplishments:

None

Significant Planned Activities in the Next Six Months:

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009.

Issues:

It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.

Tank Retrievals with Individual Milestones

Tank 241-A-103

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: 9/30/22 Status: On schedule. Change package M-45-11-04 replaced tank S-102 with tank A-103 and changed to milestone completion date for M-045-15 to 09/30/2022.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: 9/30/22, Status: On schedule. Updated with tank A-103 and due date of 9/30/22 per M-45-11-04 Change Package.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: 9/30/22, Status: On Schedule. Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

Significant Past Accomplishments:

Change Package M-45-11-04 was signed by ORP and Ecology on 04/19/11.

Significant Planned Activities in the Next Six Months and Issues:

None

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: TBD (in accordance with M-045-84 or M-045-85), Status: On Schedule

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: TBD Status: On Schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:

Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

Significant Planned Activities in the Next Six Months or Issues:

None

242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

242-A Campaign strategy:

No campaigns were conducted in FY2011 due to ongoing 242-A and Tank Farm Life Extension and ARRA funded facility upgrades. The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 6, and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	NA	NA	NA	No campaign conducted in FY12 due to ongoing 242-A and Tank Farm facility upgrades and revision to the 242-A Documented Safety Analysis (DSA).
FY13	13-01	AP-107	AP-107	Estimated start May 2013. May require two (2) passes to achieve waste volume reduction.
FY13	13-02-	AW-106	AW-106	Estimated start July 2013.
FY14	14-01	AN-106 AZ-102 AW-106	AP-107	Estimated start March 2014. Two (2) passes required.
FY15	15-01	AY-101 AZ-102	AP-107	Estimated start March 2015. Three (3) passes required.
FY15	15-02	AY-101	AP-107	Estimated start August 2015. Four (4) passes required.

SST Integrity Assurance

M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2013, Status: At risk. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was signed by ORP and Ecology on 01/23/12.

M-045-91D-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis performed on the concrete dome samples obtained from the Tank C-107 plug, Due: 5/31/2013, Status: On schedule.

M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: Complete 05/02/2012. (ORP letter 12-TF-0009)

M-045-91F-T02, Provide to Ecology as a HFFACO secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation, Due: 7/31/2013, Status: At risk.

M-045-91F-T04, provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Due: 7/31/2013, Status: At risk.

M-045-91G-T03, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 1,000,000 gallon tanks (A, AX and SX Farms), Due: 9/30/2013, Status: At risk. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was signed by ORP and Ecology on 1/23/2012.

M-045-91E, Provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013, Due: 9/30/2013, Status: On schedule.

M-045-91G-T04, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 55,000 gallon tanks (B, C, T and U Farms), Due: 10/31/2013, Status: At risk.

M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through -T04, Due: 12/31/2013, Status: At risk

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, Status: At risk.

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing. and analysis, performed on the concrete core obtained from Tank A- 106 or alternate tank, Due: 9/30/2014, Status: On schedule.

M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date, Due: 7/31/2015, Status: On schedule.

M-045-91I, Provide to Ecology an IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: 9/30/2018, Status: On schedule.

Significant Past Accomplishments:

- None.

Significant Planned Actions in the Next Six Months:

- Planning for FY2013.

Issues:

- FY2012 funding constraints will impact FY2012 M-045-91 scheduled work. Impacts on individual milestones and/or targets for FY2013 will be evaluated and presented through the TPA Paragraphs 148/149 process. ORP intends to meet and discuss the path forward with Ecology.

In Tank Characterization and Summary

For the period from August 1 – August 31, 2012:

Accomplishments:

- Completed RPP-PLAN-53364, Rev. 0, *2012 Grab Sampling and Analysis Plan for the 241AY-102A tank Annulus Leak-detector Pit.*
- Completed RPP-PLAN-53192, Rev. 0, *Tank 241-AN-101 Grab Sampling and Analysis Plan after Completion of Tank 241-C-104 Hard Heel Retrieval.*
- Completed 9 ORSS samples for C-108 Closure on August, 12 2012.
- Completed liquid grab sampling of tank 241-AN-106 for chemistry control on August, 22 2012. A total of 11 samples and a field blank were collected from various depths.
- Completed liquid grab sampling of tank 241-AN-101 for chemistry control on August, 28 2012. A total of 14 samples and a field blank were collected from various depths.
- Completed 4 liquid grab sampling events during the hard heel retrieval of C-109. Liquid grab samples were collected on August 16, 20, 28 and 29 during gibbsite metathesis.
- RPP-RPT-53236, Rev. 0, *Results for Tank 241-C-107 Stack Chemical Emissions for the Middle of Retrieval* was released on August 23, 2012

Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-SY-102 grab samples for chemistry control, currently scheduled for September, 2012.
 - 241-AY-102A Tank Annulus Leak Detection Pit sampling is scheduled for September, 2012.
 - Tank 241-AY-102 annulus sampling is currently scheduled for September, 2012.
 - Additional tank C-109 grab samples to support hard heel retrieval – currently scheduled to finish in September, 2012.
 - Tank 241-AW-106 grab samples for the evaporator, currently scheduled for November 2012.
 - Tank 241-C-104 ORSS samples for closure, currently scheduled for October 2012.

- BBI Updates

The following tanks have been identified for updates in FY12 Quarter 4. The BBI updates will be issued in October 2012.

- | | |
|--------------|--------------|
| ▪ 241-AN-101 | ▪ 241-AZ-101 |
| ▪ 241-AN-102 | ▪ 241-AZ-102 |
| ▪ 241-AN-106 | ▪ 241-C-104 |
| ▪ 241-AP-104 | ▪ 241-C-107 |
| ▪ 241-AY-101 | ▪ 241-C-109 |
| ▪ 241-AY-102 | |

- Data Quality Objectives (DQO)

- The DQO 2013 Tank 241-C-112 Crust Sampling Data Quality Objective, RPP-53277 is due to be released in September 2012
- Revision of the Strategic Planning DQO (RPP-44057) in September 2012
- A DQO for Phase 1 Testing of Tanks AN-102 and AN-107 Sr/TRU Precipitation Process is due to be released in September 2012.

Issues:

None.

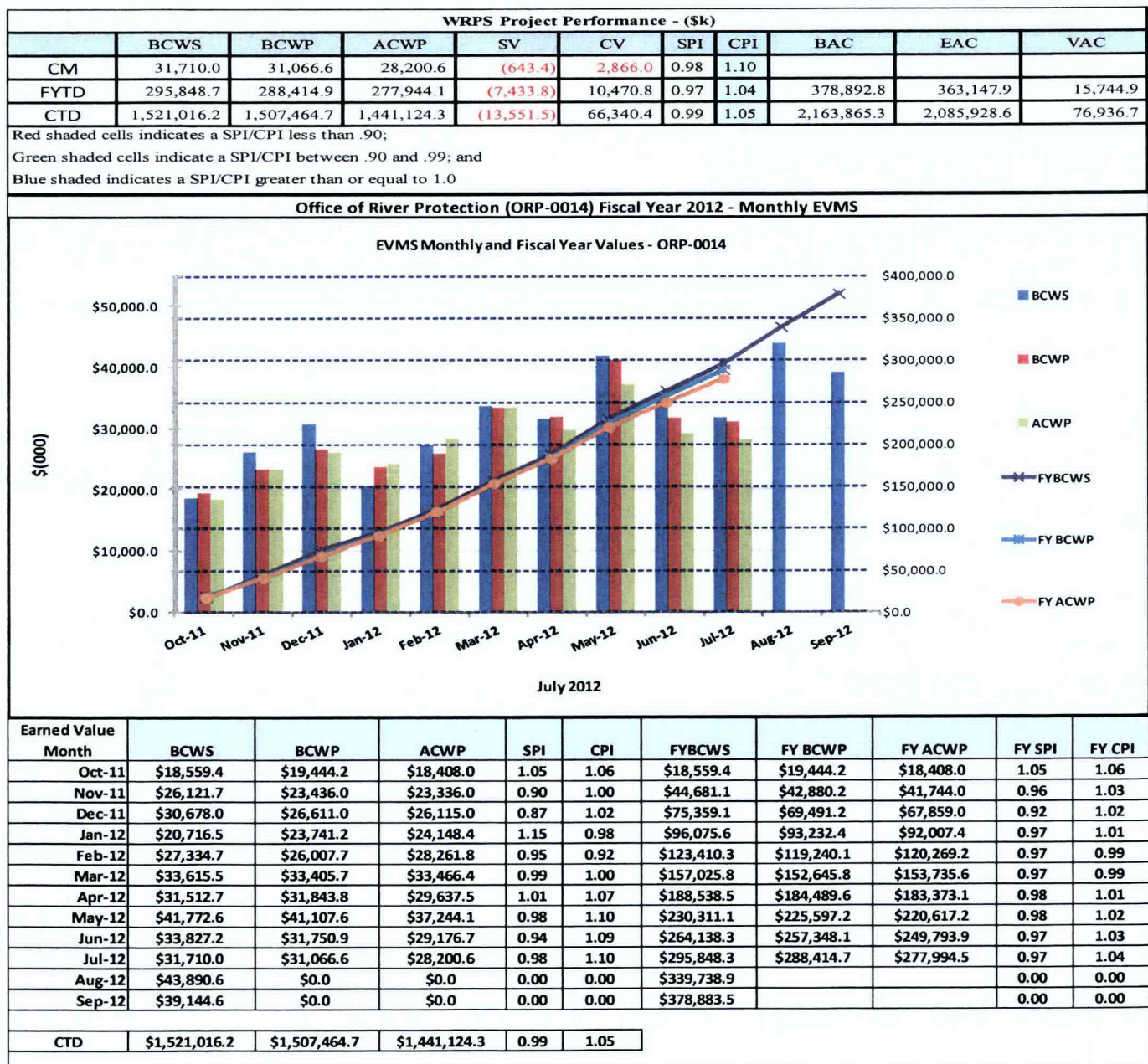
TANK OPERATIONS CONTRACT (TOC) OVERVIEW

Project Performance

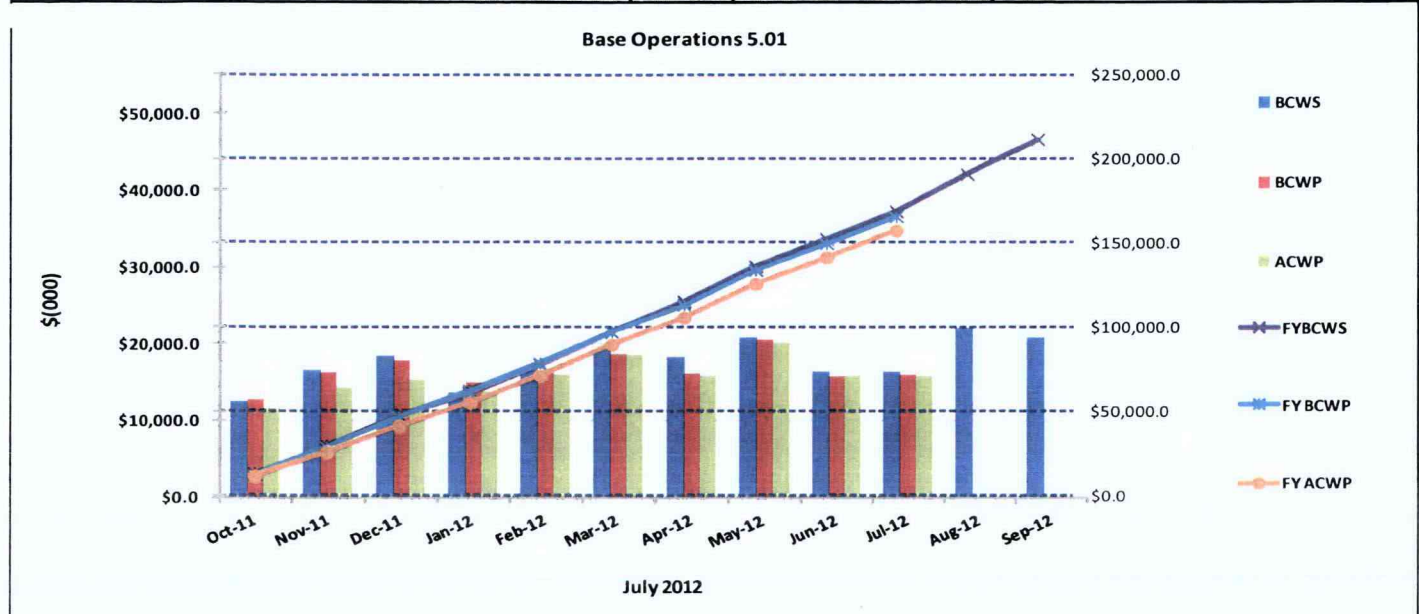
The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

As of July 31, 2012 the TOC team worked 4,610,681 hours (477 days) without a Lost Time Workday Injury or DART case and achieved 184896 hours (19 days) since the last Recordable case. There were no Days Away, Restricted, or Transferred (DART) cases and one recordable case (heat stress) in the month of July.

July EVMS Data



Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly EVMS



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$12,392.2	\$12,786.7	\$11,613.8	1.03	1.10	\$12,392.2	\$12,786.7	\$11,613.8	1.03	1.10
Nov-11	\$16,611.9	\$16,361.1	\$14,369.5	0.98	1.14	\$29,004.1	\$29,147.8	\$25,983.3	1.00	1.12
Dec-11	\$18,475.0	\$17,939.2	\$15,354.0	0.97	1.17	\$47,479.1	\$47,087.0	\$41,337.3	0.99	1.14
Jan-12	\$13,582.4	\$14,954.3	\$13,803.4	1.10	1.08	\$61,061.5	\$62,041.3	\$55,140.7	1.02	1.13
Feb-12	\$16,737.0	\$16,169.5	\$16,105.1	0.97	1.00	\$77,798.5	\$78,210.8	\$71,245.8	1.01	1.10
Mar-12	\$19,272.8	\$18,703.5	\$18,623.5	0.97	1.00	\$97,071.3	\$96,914.3	\$89,869.3	1.00	1.08
Apr-12	\$18,206.1	\$16,155.1	\$15,909.1	0.89	1.02	\$115,277.4	\$113,069.4	\$105,778.4	0.98	1.07
May-12	\$20,828.7	\$20,643.6	\$20,118.7	0.99	1.03	\$136,106.1	\$133,713.0	\$125,897.1	0.98	1.06
Jun-12	\$16,312.2	\$15,867.6	\$15,822.5	0.97	1.00	\$152,418.3	\$149,580.6	\$141,719.6	0.98	1.06
Jul-12	\$16,314.9	\$16,034.9	\$15,959.0	0.98	1.00	\$168,733.2	\$165,615.5	\$157,678.6	0.98	1.05
Aug-12	\$22,029.1	\$0.0	\$0.0	0.00	0.00	\$190,762.3			0.00	0.00
Sep-12	\$20,752.6	\$0.0	\$0.0	0.00	0.00	\$211,514.9			0.00	0.00
CTD	\$991,917.2	\$987,134.8	\$955,874.9	1.00	1.03					

Base Operations**Schedule Variance (-\$280K):**

The unfavorable schedule variance is primarily due to:

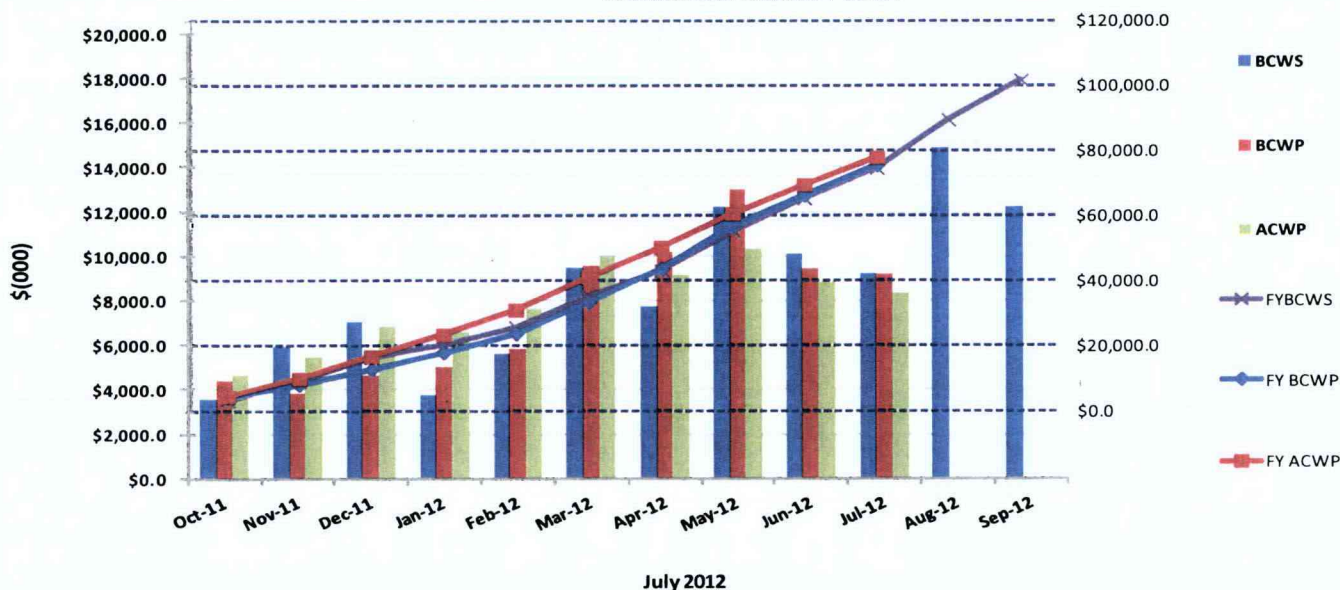
- Delay of the SY-101 ultrasonic testing due to resources assigned to higher priority work
- Delay of the AY-01A encasement pressure check due to a change in strategy
- Delay to the completion of the final 3 videos this FY due to assignment resources to higher priority work

The unfavorable SV was offset by:

- Acceleration of DST to DST transfers
- Acceleration of Level Rise/Leak Checks
- Schedule recovery on the DST AN-102 coupon array removal and shipment to the 222-S Laboratory
- Schedule recover on the DST AW-105 corrosion probe design work delayed due to the boundary element analysis

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly EVMS

Retrieve and Close SST's 5.02



July 2012

Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93
Nov-11	\$5,940.2	\$3,864.7	\$5,462.1	0.65	0.71	\$9,520.2	\$8,266.9	\$10,171.2	0.87	0.81
Dec-11	\$7,038.0	\$4,650.9	\$6,844.4	0.66	0.68	\$16,558.2	\$12,917.8	\$17,015.6	0.78	0.76
Jan-12	\$3,732.7	\$5,070.3	\$6,601.7	1.36	0.77	\$20,290.9	\$17,988.1	\$23,617.3	0.89	0.76
Feb-12	\$5,629.0	\$5,885.6	\$7,633.1	1.05	0.77	\$25,919.9	\$23,873.7	\$31,250.4	0.92	0.76
Mar-12	\$9,484.6	\$9,596.9	\$9,999.9	1.01	0.96	\$35,404.5	\$33,470.6	\$41,250.3	0.95	0.81
Apr-12	\$7,717.2	\$10,237.2	\$9,151.0	1.33	1.12	\$43,121.7	\$43,707.8	\$50,401.3	1.01	0.87
May-12	\$12,189.8	\$13,026.7	\$10,318.8	1.07	1.26	\$55,311.5	\$56,734.5	\$60,720.1	1.03	0.93
Jun-12	\$10,070.2	\$9,493.6	\$8,872.0	0.94	1.07	\$65,381.7	\$66,228.1	\$69,592.1	1.01	0.95
Jul-12	\$9,234.0	\$9,191.1	\$8,374.3	1.00	1.10	\$74,615.7	\$75,419.2	\$77,966.4	1.01	0.97
Aug-12	\$14,859.9	\$0.0	\$0.0	0.00	0.00	\$89,475.6			0.00	0.00
Sep-12	\$12,201.8	\$0.0	\$0.0	0.00	0.00	\$101,677.4			0.00	0.00
CTD	\$313,962.7	\$310,721.6	\$309,792.2	0.99	1.00					

*Single-Shell Tanks*Cost Variance (\$816.8K):

The favorable cost variance is primarily due to:

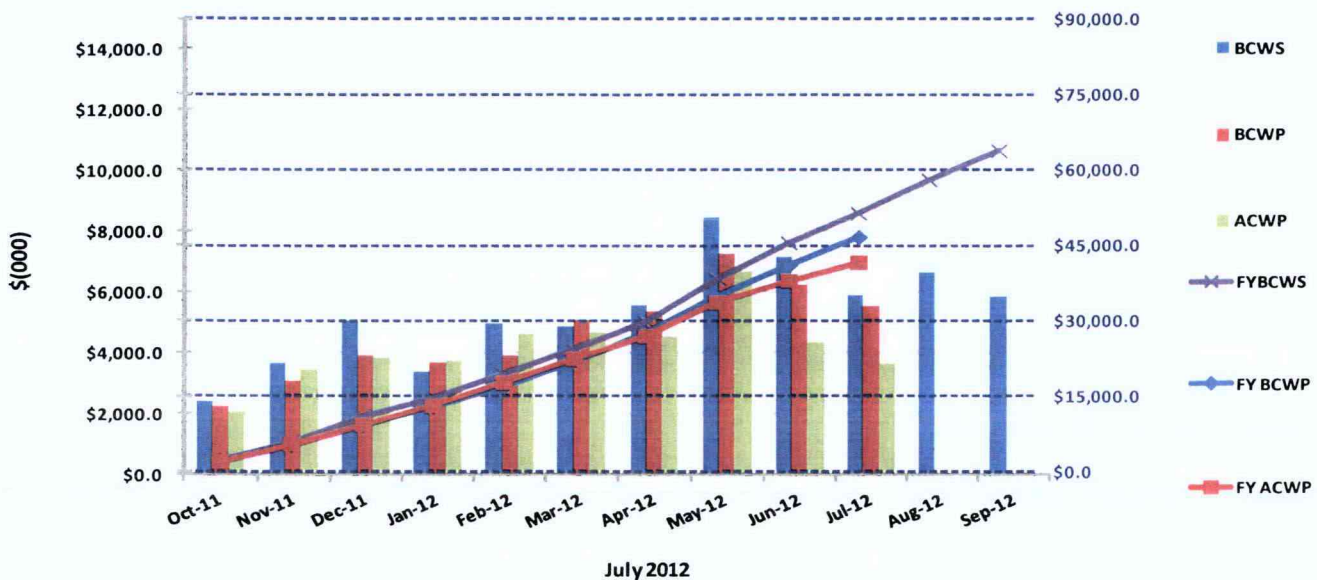
- Efficiencies achieved in C-104 hard heel removal activities
- Efficiencies in material procurements and HIHTL installation
- C-102 containment boxes cost efficiencies in the procurement and system installation
- C-107 cost efficient retrieval operations using the new MARS

The favorable CV was partially offset by:

- Additional replacement pump testing and labor for pump removal at C-109

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly EVMS

WFD / Treatment Planning / DST Retrieval / Closure 5.03



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$2,399.7	\$2,255.3	\$2,062.4	0.94	1.09	\$2,399.7	\$2,255.3	\$2,062.4	0.94	1.09
Nov-11	\$3,657.3	\$3,110.4	\$3,461.2	0.85	0.90	\$6,057.0	\$5,365.7	\$5,523.6	0.89	0.97
Dec-11	\$5,080.5	\$3,936.3	\$3,833.1	0.77	1.03	\$11,137.5	\$9,302.0	\$9,356.7	0.84	0.99
Jan-12	\$3,401.5	\$3,716.7	\$3,770.3	1.09	0.99	\$14,539.0	\$13,018.7	\$13,127.0	0.90	0.99
Feb-12	\$4,968.7	\$3,952.6	\$4,632.5	0.80	0.85	\$19,507.7	\$16,971.3	\$17,759.5	0.87	0.96
Mar-12	\$4,858.0	\$5,105.4	\$4,692.0	1.05	1.09	\$24,365.7	\$22,076.7	\$22,451.5	0.91	0.98
Apr-12	\$5,556.4	\$5,404.5	\$4,531.6	0.97	1.19	\$29,922.1	\$27,481.2	\$26,983.1	0.92	1.02
May-12	\$8,445.0	\$7,287.9	\$6,700.7	0.86	1.09	\$38,367.1	\$34,769.1	\$33,683.8	0.91	1.03
Jun-12	\$7,161.6	\$6,283.3	\$4,371.8	0.88	1.44	\$45,528.7	\$41,052.4	\$38,055.6	0.90	1.08
Jul-12	\$5,877.8	\$5,563.2	\$3,676.8	0.95	1.51	\$51,406.5	\$46,615.6	\$41,732.4	0.91	1.12
Aug-12	\$6,629.0	\$0.0	\$0.0	0.00	0.00	\$58,035.5			0.00	0.00
Sep-12	\$5,832.4	\$0.0	\$0.0	0.00	0.00	\$63,867.9			0.00	0.00
CTD	\$200,686.6	\$195,487.3	\$163,492.0	0.97	1.20					

Waste Feed Delivery/Treatment/DST Retrieval Closure**Schedule Variance (-\$314.6K):**

The unfavorable schedule variance is primarily due to:

- Delays in the preparations to commence limits-of-performance testing on both the small-scale mixing demonstration platform and the remote sampler demonstration platform

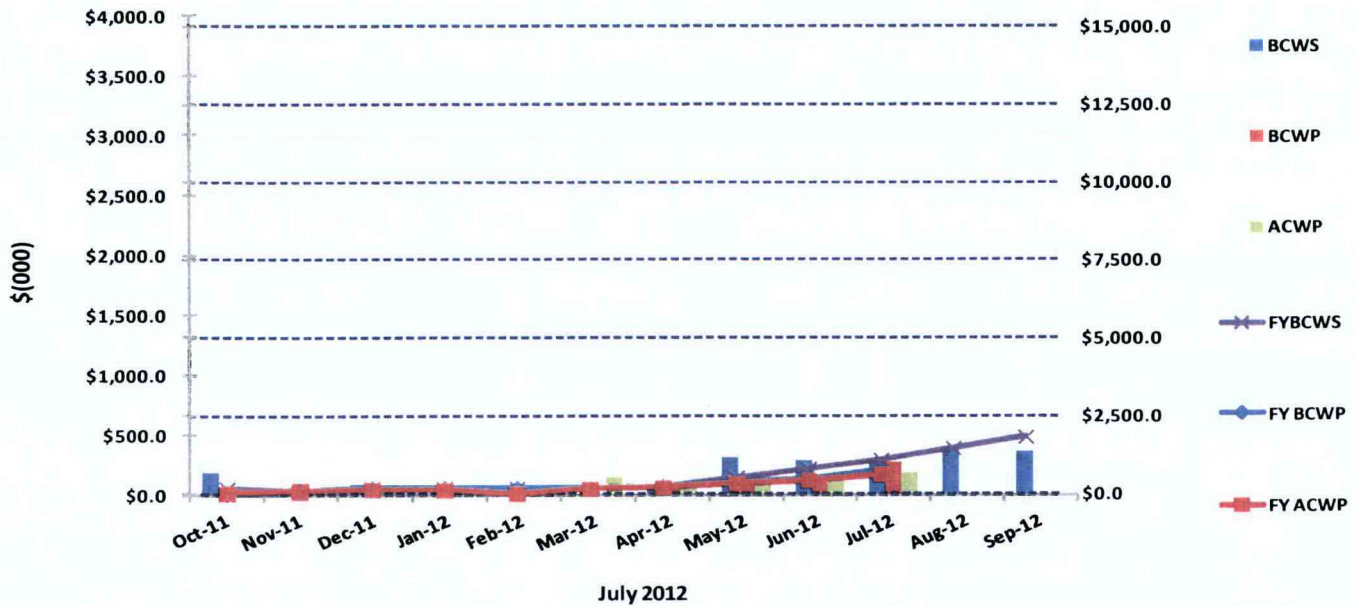
Cost Variance \$1,866.4K:

The favorable cost variance is primarily due to:

- Reduction in vendor accruals for the Limits of Performance testing and Scaled Performance

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly EVMS

Supplement Treatment 5.04



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$187.5	\$0.0	\$22.3	0.00	0.00	\$187.5	\$0.0	\$22.3	0.00	0.00
Nov-11	(\$87.7)	\$99.8	\$43.3	(1.14)	2.30	\$99.8	\$99.8	\$65.6	1.00	1.52
Dec-11	\$84.8	\$84.8	\$83.4	1.00	1.02	\$184.6	\$184.6	\$149.0	1.00	1.24
Jan-12	\$0.0	\$0.0	(\$26.9)	0.00	0.00	\$184.6	\$184.6	\$122.1	1.00	1.51
Feb-12	\$0.0	\$0.0	(\$108.9)	0.00	0.00	\$184.6	\$184.6	\$13.2	1.00	13.98
Mar-12	\$0.0	\$0.0	\$151.0	0.00	0.00	\$184.6	\$184.6	\$164.2	1.00	1.12
Apr-12	\$33.0	\$47.1	\$45.8	1.43	1.03	\$217.6	\$231.7	\$210.0	1.06	1.10
May-12	\$309.1	\$149.4	\$105.9	0.48	1.41	\$526.7	\$381.1	\$315.9	0.72	1.21
Jun-12	\$283.2	\$106.0	\$110.4	0.37	0.96	\$809.9	\$487.1	\$426.3	0.60	1.14
Jul-12	\$283.2	\$277.4	\$190.4	0.98	1.46	\$1,093.1	\$764.5	\$616.7	0.70	1.24
Aug-12	\$372.6	\$0.0	\$0.0	0.00	0.00	\$1,465.7			0.00	0.00
Sep-12	\$357.7	\$0.0	\$0.0	0.00	0.00	\$1,823.4			0.00	0.00
CTD	\$14,449.7	\$14,121.0	\$11,965.2	0.98	1.18					

Supplemental Treatment

- None to report

Acquisition of New Facilities

M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: To Be Missed. Formal notification to miss this milestone was provided to Ecology via ORP Letter 12-ECD-0024 on 06/27/12. ORP and Ecology held a negotiation meeting on 08/21/12 to discuss the M-047-06 and M-090-11 milestones. Please see issues below.

M-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule

M-047-06, Complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00, Due: 06/30/12, Status: Missed. Formal notification to miss this milestone was provided to Ecology via ORP Letter 12-ECD-0024 on 06/27/12. ORP and Ecology held a negotiation meeting on 08/21/12 to discuss the M-047-06 and M-090-11 milestones. Please see issues below.

M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the WTP, Due: 12/31/2022, Status: On Schedule

Significant Past Accomplishments:

Interim Hanford Storage: Nothing to Report. The Secondary Liquid Waste Treatment Project delivered the Conceptual Design Report and the CD-1 package to ORP on August 9, 2012.

Significant Planned Actions in the Next Six Months:

None.

Issues:

ORP submitted signed TPA Change Packages M-47-12-01 and M-90-12-01 to Ecology on 06/13/12 to defer negotiation of these milestones to a To Be Determined (TBD) date to be established 12 months following completion of the River Protection Plan (RPP) Waste Treatment Plant (WTP) re-baseline/re-planning efforts. Ecology provided letters 12-NWP-101 and 12-NWP-100 disapproving M-47-12-01 and M-90-12-01 TPA Change Packages to ORP on 06/25/12. Formal notification to miss milestones M-047-06 and M-090-11 provide to Ecology via ORP Letter 12-ECD-0024 on 06/27/12. Ecology issued a Notice of Violation (NOV) for M-047-06 on 07/12/12 per letter 12-NWP-118. ORP received Ecology letter 12-NWP-122, Docket Number 9402, stipulating a penalty of \$5,000 for missing M-047-06 on 07/19/12. ORP paid this penalty on 07/27/12. ORP and Ecology held a negotiation meeting on 08/21/12 to discuss the M-047-06 and M-090-11 milestones.

Supplemental Treatment and Part B Permit Applications

M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, Due:

10/31/2014, Status: On Schedule.

M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: 4/30/2015,

Status: On schedule. Negotiations are not yet underway.

M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due:

4/30/2015, Status: On Schedule.

M-062-31-T01, Complete final design and submit RCRA Part B permit mod request, Due:

4/30/2016, Status: On schedule

M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or

WTP enhancements, Due: 4/30/2018, Status: On schedule

M-062-33-T01, Complete construction of supplemental vitrification treatment facility

and/or WTP enhancements, Due: 4/30/2021, Status: On schedule

M-062-45XX, No later than 12/31/2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the

determinations in M-062-45, paragraphs 4 and 5, due: 12/31/2021, Status: On Schedule

M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility

and/or WTP enhancements, Due: 12/30/2022, Status: On schedule

M-062-21, Annually, submit data that demonstrates operation of the WTP, Due: 2/28/2023,

Status: On Schedule

M-062-00, Complete Pretreatment Processing and Vitrification of HLW and LAW Tank

Wastes, Due: 12/31/2047, Status: On Schedule

Significant Past Accomplishments:

None

Significant Planned Actions in the Next Six Months:

None

Issues:

None

System Plan

M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: Completed 10/24/2011 via DOE-ORP/ECY joint signature letter 11-TPD-087.

M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: 10/31/2013, Status: On Schedule

M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2014, Status: On Schedule

M-062-45-T01, Every six years, within six-months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: 4/30/2015, Status: On Schedule

Significant Past Accomplishments:

DOE/ORP submitted the River Protection Project System Plan, Revision 6, with a joint Ecology signature to EPA on October 24, 2011.

Significant Planned Actions in the Next Six Months:

None

Status:

During the May 2012 ORP/Ecology TPA Quarterly Meeting, it was stated that five proposed/draft scenarios/cases were submitted to Washington River Protection Solutions LLC (WRPS) for System Plan 6 Addendum (SP6A). No verbal or written direction has been provided to WRPS to begin simulation/modeling of the proposed/draft scenarios.

Since then, various circumstances have occurred, in which the five proposed/draft scenarios are no longer considered scenarios. No new scenarios have been proposed for SP6A. System Plan 7 is still on schedule to begin in the May-August 2013 time frame.

Issues:

None

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
M-062-01Y	Submit Semi-Annual TPA Project Compliance Report	07/31/2012	Completed – Report hand-delivered on 07/27/2012
M-062-01Z	Submit Semi-Annual TPA Project Compliance Report	01/31/2013	On Schedule

***SEE THE SEPTEMBER 2012 ORP CONSENT DECREE 08-5085-FVS
MONTHLY SUMMARY REPORT FOR WTP FACILITY-SPECIFIC
INFORMATION**

BALANCE OF FACILITIES (BOF)

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	On-going

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 50 percent complete overall, with engineering design 74 percent complete, procurement 50 percent complete, construction 65 percent complete, and startup and commissioning is 9 percent complete.

Significant Past Accomplishments:

Oversight efforts are focused on identification of individual facility requirements within BOF to support facility completion and turnover to the startup organization. As necessary to support facility completion, the WTP contractor initiates a weekly or bi-weekly meeting approximately 12 months prior to the scheduled turnover date. The meetings focus on schedule reviews and punch list development for the remaining construction activities. Regular meetings are currently being held for the WTP site switchgear buildings (87 and 91) and the Chiller Compressor Plant (CCP).

Recent accomplishments for the BOF team are:

- Completed 3 week walk down for WTP switchgear building 87
- Completed grouting column bases for the anhydrous ammonia storage facility
- Issued the Process Hazards Analysis Report for the Balance of Facilities
- Issued the Arc Flash Hazards and Risk Analysis for the BOF switchgear facility (Bldg. 91)
- Completed the Sanitary Disposal system (SND) tie-in for the LAW Annex

Significant Planned Actions in the Next Six Months:

- Complete construction of the Steam Plant
- Complete construction of Cooling Tower
- Complete Construction of the Chiller Compressor Plant
- Complete construction of BOF switchgear building
- Turnover WTP Switchgear (Bldg 87) from construction to the startup organization

Issues:

No major issues.

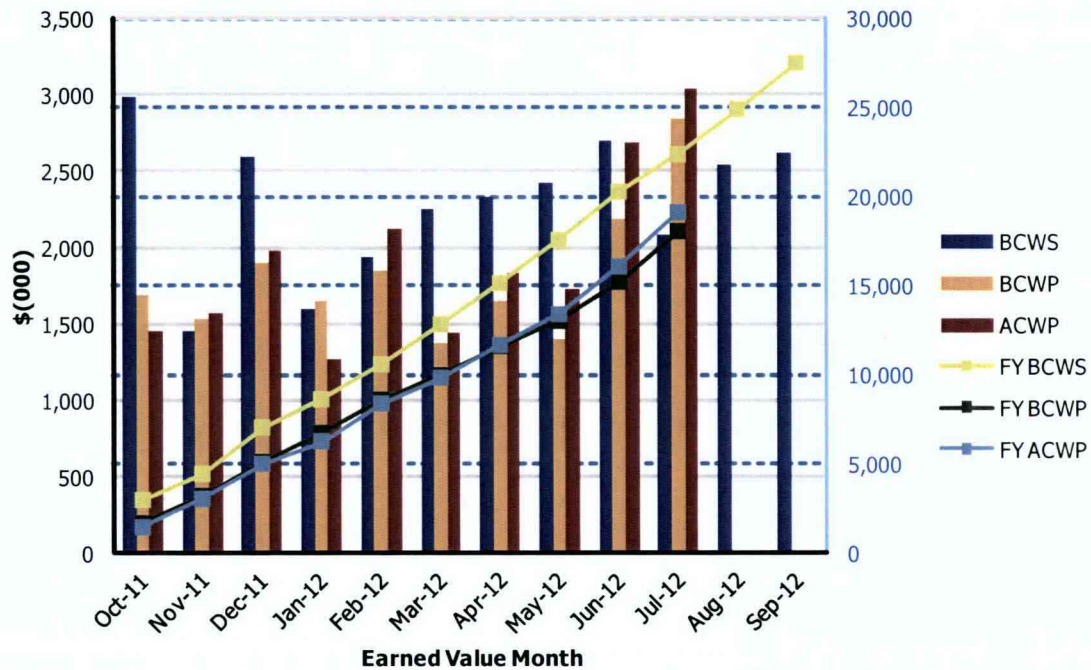
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

River Protection Project Balance of Facilities

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,980	\$1,685	\$1,454	0.57	1.16	\$2,980	\$1,685	\$1,454	0.57	1.16
Nov 2011	\$1,455	\$1,524	\$1,564	1.05	0.97	\$4,435	\$3,209	\$3,018	0.72	1.06
Dec 2011	\$2,594	\$1,895	\$1,981	0.73	0.96	\$7,029	\$5,104	\$4,999	0.73	1.02
Jan 2012	\$1,597	\$1,652	\$1,262	1.03	1.31	\$8,626	\$6,756	\$6,261	0.78	1.08
Feb 2012	\$1,939	\$1,841	\$2,123	0.95	0.87	\$10,565	\$8,597	\$8,384	0.81	1.03
Mar 2012	\$2,248	\$1,376	\$1,444	0.61	0.95	\$12,813	\$9,973	\$9,828	0.78	1.01
Apr 2012	\$2,331	\$1,651	\$1,835	0.71	0.90	\$15,144	\$11,624	\$11,663	0.77	1.00
May 2012	\$2,421	\$1,399	\$1,725	0.58	0.81	\$17,565	\$13,023	\$13,388	0.74	0.97
Jun 2012	\$2,698	\$2,188	\$2,685	0.81	0.81	\$20,263	\$15,211	\$16,073	0.75	0.95
Jul 2012	\$2,075	\$2,838	\$3,040	1.37	0.93	\$22,338	\$18,049	\$19,113	0.81	0.94
Aug 2012	\$2,533			0.00		\$24,871			0.00	
Sep 2012	\$2,615			0.00		\$27,486			0.00	
PTD	\$276,181	\$270,160	\$268,170	0.98	1.01					

ANALYTICAL LABORATORY

Number	Title	Due Date	Status
D-00A-05	LAB Construction Substantially Complete	12/31/2012	On-going

The Analytical Laboratory (LAB) will support WTP operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 56 percent complete overall, with engineering design 82 percent complete, procurement 78 percent complete, construction 87 percent complete, and startup and commissioning is 10 percent complete.

Significant Past Accomplishments:

The project team continued to focus on the LAB Construction Substantially Complete milestone. Daily meetings are held to evaluate construction progress and challenges that arise. Major structures of the building are in place including the interior partition walls which segregate the various analytical stations for LAW sample analysis. Within the individual analytical areas, detail/finishing work continues with emphasis on the installation of commodities to support laboratory cabinets and analytical equipment. Recent accomplishments for the LAB team are listed below:

- Completed placement of self-contained AC units to support the LAB server room.
- Began installing electrical equipment for the Process Controls System (PCJ) in the LAB server room
- Continued installation efforts for the Hotcell trolley motor assemblies
- Continued testing of the Low Pressure Steam (LPS) and Condensate Return (SCW) systems

Significant Planned Actions in the Next Six Months:

- Complete mechanical installation of Autosampling System
- Set pumps in C5 pit
- Install Hot Cell import/export motors
- Progress Analytical Laboratory Construction to "Substantially Complete"

Issues:

No issues to report.

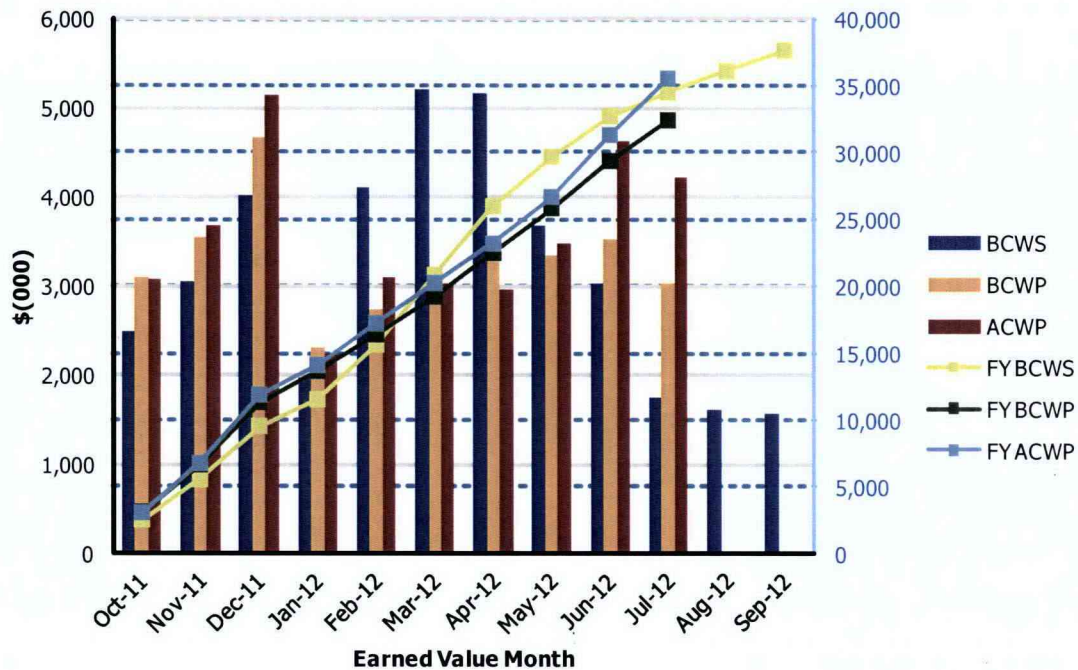
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,489	\$3,092	\$3,063	1.24	1.01	\$2,489	\$3,092	\$3,063	1.24	1.01
Nov 2011	\$3,040	\$3,551	\$3,680	1.17	0.96	\$5,529	\$6,643	\$6,743	1.20	0.99
Dec 2011	\$4,005	\$4,676	\$5,128	1.17	0.91	\$9,534	\$11,319	\$11,871	1.19	0.95
Jan 2012	\$1,970	\$2,318	\$2,242	1.18	1.03	\$11,504	\$13,637	\$14,113	1.19	0.97
Feb 2012	\$4,113	\$2,725	\$3,091	0.66	0.88	\$15,617	\$16,362	\$17,204	1.05	0.95
Mar 2012	\$5,203	\$2,860	\$3,036	0.55	0.94	\$20,820	\$19,222	\$20,240	0.92	0.95
Apr 2012	\$5,167	\$3,265	\$2,954	0.63	1.11	\$25,987	\$22,487	\$23,194	0.87	0.97
May 2012	\$3,685	\$3,349	\$3,486	0.91	0.96	\$29,672	\$25,836	\$26,680	0.87	0.97
Jun 2012	\$3,020	\$3,531	\$4,627	1.17	0.76	\$32,692	\$29,367	\$31,307	0.90	0.94
Jul 2012	\$1,756	\$3,035	\$4,227	1.73	0.72	\$34,448	\$32,402	\$35,534	0.94	0.91
Aug 2012	\$1,612			0.00		\$36,059			0.00	
Sep 2012	\$1,572			0.00		\$37,631			0.00	
PTD	\$204,250	\$200,871	\$216,304	0.98	0.93					

FINAL

Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
September 2012

Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
September 2012

Page	Topic	Leads
3	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
5	SST Retrieval and Closure – D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
7	Tank Waste Retrieval Work Plan (TWRWP) Status – Consent Decree Appendix C	Chris Kemp / Jeff Lyon
8	SST Retrieval Monthly and Fiscal Year EVMS Data	Dan Knight / Jeff Lyon
9	WTP - Immobilization Plant Project – D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
11	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
14	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Wahed Abdul / Dan McDonald
16	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
19	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald
21	Analytical Laboratory (LAB) – D-00A-005	

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2012				
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11	10/25/11	Completed
D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11	11/21/11	Completed
D-00C-02N	Submit to Ecology and Oregon Monthly Summary Reports	12/31/11	12/27/11	Completed
D-00C-02O	Submit to Ecology and Oregon Monthly Summary Reports	01/31/12	01/25/12	Completed
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12	01/27/12	Completed
D-00C-02P	Submit to Ecology and Oregon Monthly Summary Reports	02/29/12	02/22/12	Completed
D-00C-02Q	Submit to Ecology and Oregon Monthly Summary Reports	03/31/12	03/31/12	Completed
D-00C-02R	Submit to Ecology and Oregon Monthly Summary Reports	04/30/12	04/26/12	Completed
D-00C-02S	Submit to Ecology and Oregon Monthly Summary Reports	05/31/12	05/29/12	Completed
D-00C-02T	Submit to Ecology and Oregon Monthly Summary Reports	06/30/12	06/29/12	Completed
D-00C-02U	Submit to Ecology and Oregon Monthly Summary Reports	07/31/12	07/26/12	Completed
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12	07/27/12	Completed
D-00C-02V	Submit to Ecology and Oregon Monthly Summary Reports	08/31/12	08/22/12	Completed
D-00C-02W	Submit to Ecology and Oregon Monthly Summary Reports	09/30/12		On-going
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012		On-going
**D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00A-05	LAB Construction Substantially Complete	12/31/2012		On-going
D-00A-12	Steam Plant Construction Complete	12/31/2012		On-going
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012		On-going

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013 Continued				
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	01/31/2013		On-going
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	07/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	09/25/2013		On-going

Reports

D-00C-01 series, Submit to Ecology & State of Oregon Semi-Annual Report, Due: Semi-Annually – January 31st and July 31st of each year. Status: On-going

D-00C-02 series, Submit to Ecology & State of Oregon Monthly Summary Report Documenting Progress During Previous Month, Due: End of Each Month, Status: On-going

D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Due: 9/25/2013, Status: On-going

D-006-00-A, Meet Approximately Every Three Years After Entry of Decree to review requirements of the Consent Decree, Due: 10/25/2013, Status: On-going

SST Retrieval Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 9/30/2014, Status: On-going

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD

Pursuant to the requirement in Section IV-B-5 of the Consent Decree (CD) DOE must submit to Ecology a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix "C", Part 1, of the CD. Tanks currently in retrieval status are C-107, C-109, C-110, C-111, and C-112.

D-00B-02, Advise Ecology of the 9 SSTs from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: Complete. ORP and Ecology began meeting in December 2010 to discuss the selection of the next nine tanks from which waste will be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held on August 24, 2011. At this meeting, Ecology stated that it believes the requirements of D-00B-02 of the Consent Decree have been met.

D-00B-03, Initiate Startup Retrieval in At Least 5 of 9 SSTs in D-00B-02, Due: 12/31/2017, Status: On-going

D-00B-04, Complete Retrieval of Tank Wastes from the 9 SSTs in D-00B-02, Due: 9/30/2022, Status: On-going

D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: TBD

Significant Past Accomplishments:

1. Continued procurement for C-101 and C-102 modified sluicing retrieval systems.
2. Continued removal of legacy (long length) equipment in C-102.
3. Initiated installation of the Modified Sluicing retrieval equipment including, slurry pumps and Extended Reach Sluicing Systems (ERSS) at both C-101 and C-102.
4. Completed hard heel retrieval of C-104.
5. Continued construction activities for removal of equipment at C-105 to support large riser installation.
6. Completed modifying ventilation system to add C-105 to the new exhaust system installed for C-102.
7. Completed bulk retrieval of C-107 utilizing the MARS system.
8. Initiated hard heel retrieval of C-107 by utilizing the high pressure water spray nozzles of the MARS System.
9. Continued hard heel retrieval at C-109 by addition of caustic for the dissolution of solids and recirculation of this caustic.
10. Completed removal of expired HIHTLs between AN06A pit and POR104 valve box.
11. Initiated installation of new HIHTLs between AN06A pit and POR014 valve box.

Significant Planned Activities in the Next Six Months:

1. Complete construction/installation of the modified sluicing system in C-101.
2. Complete removal of legacy equipment at C-102.
3. Complete construction/installation of the modified sluicing system in C-102.
4. Complete removal of equipment/pit at C-105.
5. Complete installation of the large riser in C-105.
6. Complete C-107 hard heel retrieval.
7. Obtain C-108 Post-Retrieval samples using the Off Riser Sampling System.
8. Complete hard heel removal of waste at C-109.
9. Complete discussions with Ecology on the retrieval certificate of completion.

Issues:

None.

Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	Chemical Dissolution	-
C-102	RPP-22393	Complete	Modified Sluicing	Chemical Dissolution	-
C-104	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520	In Process	MARS-V	High pressure water spray/M A RS platform	-
C-107	RPP-22393	In Process	MARS-S	MARS-High Pressure	-
C-108	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895	After evaluation of C-108 hard heel retrieval	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116	After evaluation of C-108 hard heel retrieval	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-111	RPP-37739	After evaluation of C-108 hard heel retrieval	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-112	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

Significant Planned Activities in the Next 6 Months:

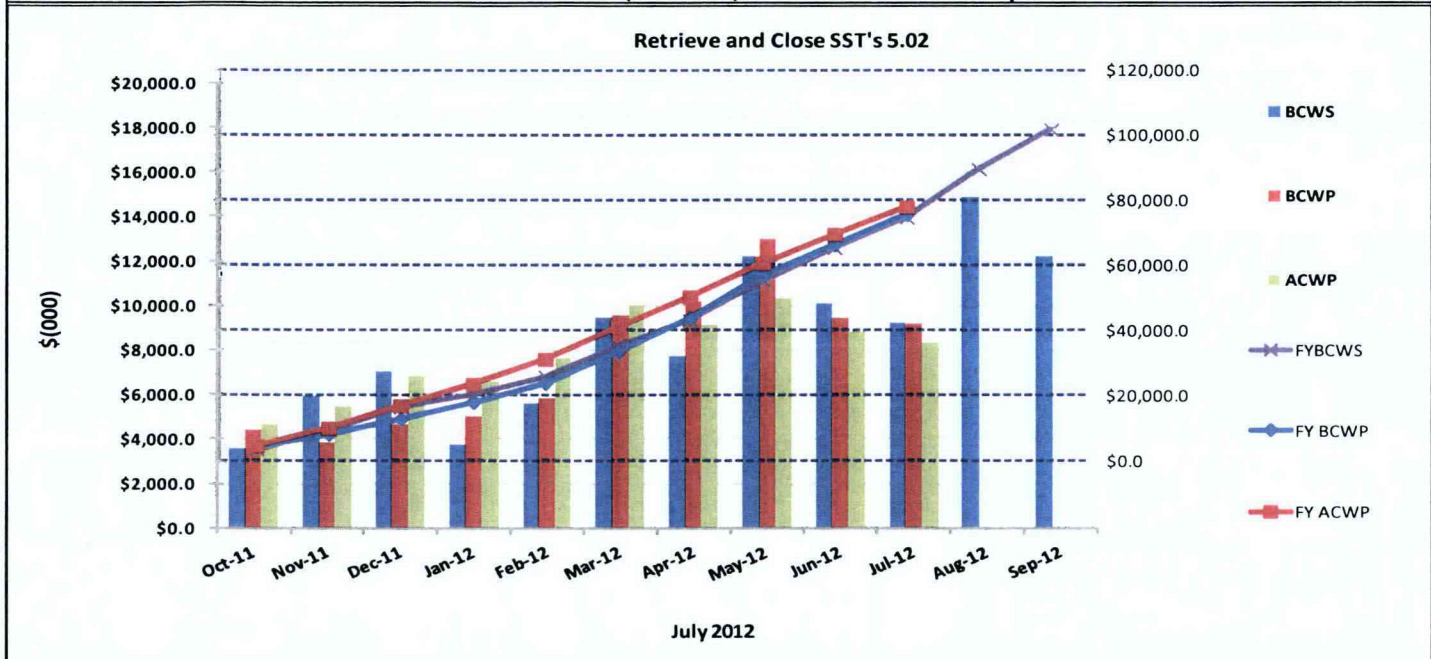
Work with Ecology on updates to TWRWPs RPP-22520, RPP-22393, and RPP-37739 for tanks C-101, C-102, and C-111, respectively.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly EVMS



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93
Nov-11	\$5,940.2	\$3,864.7	\$5,462.1	0.65	0.71	\$9,520.2	\$8,266.9	\$10,171.2	0.87	0.81
Dec-11	\$7,038.0	\$4,650.9	\$6,844.4	0.66	0.68	\$16,558.2	\$12,917.8	\$17,015.6	0.78	0.76
Jan-12	\$3,732.7	\$5,070.3	\$6,601.7	1.36	0.77	\$20,290.9	\$17,988.1	\$23,617.3	0.89	0.76
Feb-12	\$5,629.0	\$5,885.6	\$7,633.1	1.05	0.77	\$25,919.9	\$23,873.7	\$31,250.4	0.92	0.76
Mar-12	\$9,484.6	\$9,596.9	\$9,999.9	1.01	0.96	\$35,404.5	\$33,470.6	\$41,250.3	0.95	0.81
Apr-12	\$7,717.2	\$10,237.2	\$9,151.0	1.33	1.12	\$43,121.7	\$43,707.8	\$50,401.3	1.01	0.87
May-12	\$12,189.8	\$13,026.7	\$10,318.8	1.07	1.26	\$55,311.5	\$56,734.5	\$60,720.1	1.03	0.93
Jun-12	\$10,070.2	\$9,493.6	\$8,872.0	0.94	1.07	\$65,381.7	\$66,228.1	\$69,592.1	1.01	0.95
Jul-12	\$9,234.0	\$9,191.1	\$8,374.3	1.00	1.10	\$74,615.7	\$75,419.2	\$77,966.4	1.01	0.97
Aug-12	\$14,859.9	\$0.0	\$0.0	0.00	0.00	\$89,475.6			0.00	0.00
Sep-12	\$12,201.8	\$0.0	\$0.0	0.00	0.00	\$101,677.4			0.00	0.00
CTD	\$313,962.7	\$310,721.6	\$309,792.2	0.99	1.00					

Single-Shell Tanks

Cost Variance (\$816.8K):

The favorable cost variance is primarily due to:

- Efficiencies achieved in C-104 hard heel removal activities
- Efficiencies in material procurements and HIHTL installation
- C-102 containment boxes cost efficiencies in the procurement and system installation
- C-107 cost efficient retrieval operations using the new MARS

The favorable CV was partially offset by:

- Additional replacement pump testing and labor for pump removal at C-109

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
D-00A-06	Complete Methods Validations	12/31/2017	On-going* (see issues below)
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	On-going* (see issues below)
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	On-going* (see issues below)

The WTP Project currently employs approximately 2,251 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 604 craft, 493 non-manual, and about 123 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of July 2012, the project was 66 percent complete overall, design and engineering was 86 percent complete, procurement was 71 percent complete, construction was 63 percent complete, and startup and commissioning was 16 percent complete.

The overall WTP Project schedule variance in July was a negative \$84 M; the cost variance was a negative \$48.2 M. The schedule variance was primarily related to Engineering Design, Plant Equipment, and Environmental & Nuclear Safety; and the cost variance was primarily related to Engineering Design, Construction Crafts, and Plant Equipment.

The following is the status of project issues through the end of July.

Significant Past Accomplishments:

- Completed the Hydrogen Generation Rate (HGR) calculations for HLP-17, HLP-12, HLP-09 and HFP-06 (PT)
- Completed installation of HDH-VSL-1 on trolley in canister rinse tunnel (HLW)
- Completed installation activities for sealing melter bay #3 floor openings leading to elevation -21' with steel plate shielding and framing structural steel in the fire riser room. (LAW)
- Completed 8 week walk down for WTP switchgear building 87 (BOF)
- Began installation of shower/eyewash stations throughout the facility (LAB)

Significant Planned Actions in the Next Six Months:

- Issue the final report documenting the results from the entrainment coefficient testing for the PVV system (PT)
- Complete 37' structural steel (HLW)
- Complete installation of melter power supplies (LAW)
- Complete installation of Auto Sampling (ASX system) (LAW)
- Complete construction of the cooling tower (BOF)
- Complete construction of the switchgear building (BOF)
- Complete mechanical installation of autosampling system (LAB)

Issues:

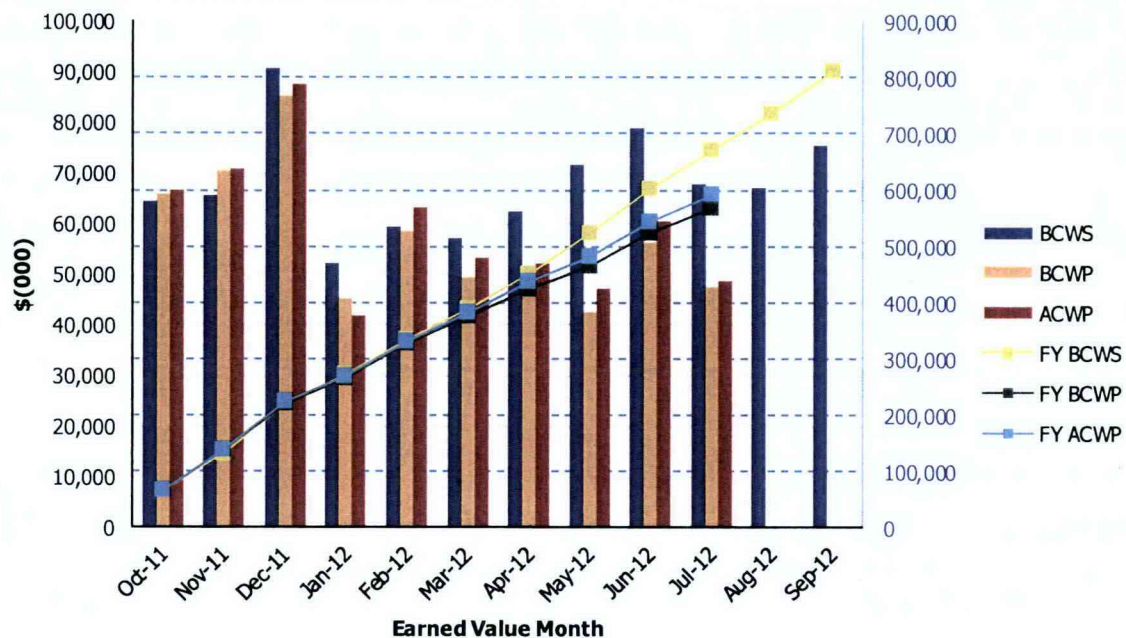
- Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.
- There are no significant technical issues in LAW or BOF at this time.
- The LAB schedule was recently affected by an issue concerning valve internals. At this time, there is no impact to the Consent Decree milestone (D-00A-05) or contract milestone completion dates.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Waste Treatment Plant (WTP) Project**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$64,411	\$65,869	\$66,670	1.02	0.99	\$64,411	\$65,869	\$66,670	1.02	0.99
Nov 2011	\$65,647	\$70,625	\$70,879	1.08	1.00	\$130,058	\$136,494	\$137,549	1.05	0.99
Dec 2011	\$90,699	\$85,246	\$87,845	0.94	0.97	\$220,757	\$221,740	\$225,394	1.00	0.98
Jan 2012	\$52,248	\$45,149	\$41,816	0.86	1.08	\$273,005	\$266,889	\$267,210	0.98	1.00
Feb 2012	\$59,271	\$58,579	\$63,201	0.99	0.93	\$332,276	\$325,468	\$330,411	0.98	0.99
Mar 2012	\$57,285	\$49,398	\$53,161	0.86	0.93	\$389,561	\$374,866	\$383,572	0.96	0.98
Apr 2012	\$62,378	\$47,517	\$52,149	0.76	0.91	\$451,939	\$422,383	\$435,721	0.93	0.97
May 2012	\$71,778	\$42,759	\$47,365	0.60	0.90	\$523,717	\$465,142	\$483,086	0.89	0.96
Jun 2012	\$78,891	\$56,530	\$60,446	0.72	0.94	\$602,608	\$521,672	\$543,532	0.87	0.96
Jul 2012	\$67,735	\$47,504	\$48,727	0.70	0.97	\$670,343	\$569,176	\$592,259	0.85	0.96
Aug 2012	\$66,879			0.00		\$737,221			0.00	
Sep 2012	\$75,468			0.00		\$812,689			0.00	
PTD	\$7,134,090	\$7,050,131	\$7,098,284	0.99	0.99					

PRETREATMENT (PT) FACILITY

Number	Title	Due Date	Status
D-00A-19	Complete Elevation 98' Concrete Floor Slab in PT Facility	12/31/2014	On-going* (see issues below)
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	On-going* (see issues below)
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	On-going* (see issues below)
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	On-going* (see issues below)
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	On-going* (see issues below)

The Pretreatment (PT) Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. As of July 2012, the PT Facility was 54 percent complete overall, with engineering design 81 percent complete, procurement 53 percent complete, construction 42 percent complete, and startup and commissioning 4 percent complete.

Significant Past Accomplishments:

The key on-going activities in PT are related to the resolution of the Pretreatment Vessel Vent Process (PVP) system design, Hydrogen in Piping and Ancillary Vessels (HPAV), erosion/corrosion and vessel mixing technical issues.

The medium scale testing was completed and the report documenting the results will be issued in September 2012. The preliminary results for both the small and medium scale tests resulted in an entrainment coefficient smaller than expected, which supports less extensive modification to the PVV system design. Dismantling of the test facility has begun.

The Hydrogen Generation Rate (HGR) calculations for HLP-17, HLP-12, HLP-09 and HFP-06 have been completed and will be issued after Verification and Validation (V&V) of the software. The remaining calculations in support of resolving the HPAV issue are currently planned to be completed in November 2012.

The implementation plan for the Preliminary Design Safety Analysis (PDSA) update, which will integrate the nuclear safety activities with the vessel design confirmation activities, is scheduled to be issued in September 2012.

The initial long lead procurements for the UFP-2 array, 14' test vessel & steel heads and structural steel test stand/skid have been released in support of the construction of the facility for the 14 foot vessel testing.

A revision to the 2010-2 Implementation Plan (IP) is in progress and will address the changes in strategy, approach and expectations. The plan is expected to be issued to the DNFSB in the last quarter of calendar year 2012.

The revised erosion/corrosion action plan was issued in August 2012, and a preliminary schedule to complete the items in the action plan will be issued in September 2012. A corrosion test scoping document is expected to be issued in December 2012 to address the material selection issue.

The NQA-1 Computational Fluid Dynamics (CFD) V&V tests will start after the resolution of DOE/NETL comments on the test plan. DOE and BNI have met with the NETL team and have established bi-weekly calls to review comments. Cloud height informational testing has been completed and User Defined Function (UDF) informational testing has been initiated.

Significant Planned Actions in the Next Six Months:

- Issue the final report documenting the results from the entrainment coefficient testing for the PVV system
- Complete Hazards and Operability Analysis (HAZOP) for (PVP) system
- Issue the implementation plan for the PDSA update
- Complete the HPAV HGR rate calculations
- Issue the technical scaling selection basis document
- Submit the 2010-2 Implementation Plan revision
- Issue the corrosion test scoping document

Issues:

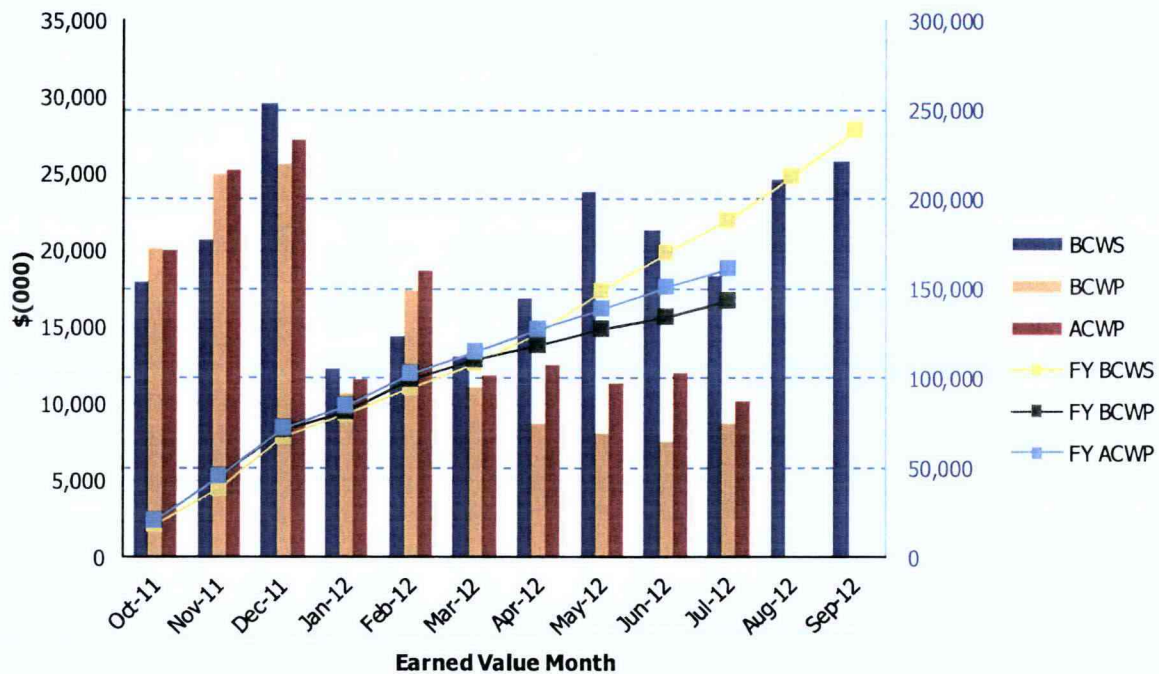
* Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

River Protection Project Pretreatment Facility

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$17,935	\$20,110	\$20,000	1.12	1.01	\$17,935	\$20,110	\$20,000	1.12	1.01
Nov 2011	\$20,616	\$24,945	\$25,222	1.21	0.99	\$38,551	\$45,055	\$45,222	1.17	1.00
Dec 2011	\$29,580	\$25,673	\$27,175	0.87	0.94	\$68,131	\$70,728	\$72,397	1.04	0.98
Jan 2012	\$12,292	\$10,751	\$11,583	0.87	0.93	\$80,423	\$81,479	\$83,980	1.01	0.97
Feb 2012	\$14,371	\$17,367	\$18,675	1.21	0.93	\$94,794	\$98,846	\$102,655	1.04	0.96
Mar 2012	\$13,101	\$11,054	\$11,874	0.84	0.93	\$107,895	\$109,900	\$114,529	1.02	0.96
Apr 2012	\$16,877	\$8,730	\$12,488	0.52	0.70	\$124,772	\$118,630	\$127,017	0.95	0.93
May 2012	\$23,773	\$8,080	\$11,320	0.34	0.71	\$148,545	\$126,710	\$138,337	0.85	0.92
Jun 2012	\$21,271	\$7,567	\$12,061	0.36	0.63	\$169,816	\$134,277	\$150,398	0.79	0.89
Jul 2012	\$18,275	\$8,767	\$10,178	0.48	0.86	\$188,091	\$143,044	\$160,576	0.76	0.89
Aug 2012	\$24,560			0.00		\$212,650			0.00	
Sep 2012	\$25,838			0.00		\$238,488			0.00	
PTD	\$1,431,264	\$1,392,543	\$1,381,189	0.97	1.01					

HIGH-LEVEL WASTE (HLW) FACILITY

Number	Title	Due Date	Status
D-00A-21	Complete Construction of Structural Steel to 37' in HLW Facility	12/31/2012	On-going
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	On-going* (see issues below)
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	On-going* (see issues below)
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	On-going* (see issues below)

The High Level Waste (HLW) Facility will receive the separated high-level waste concentrate from the Pretreatment (PT) Facility. This concentrate will be blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated prior to shipment to interim storage. As of July 2012, the HLW Facility is 60 percent complete overall, with engineering design 87 percent complete, procurement 77 percent complete, construction 42 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

Excellent progress is being made on completion of the Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility." The current forecast for construction completion is September 2012 compared to the consent decree compliance date of December 31, 2012. The last steel erection consists primarily of 4 beams in the Rinse Tunnel which was installed in August. The documentation for the milestone completion is in process.

The seismic rails for the decontamination rinse bogie have been set. The Dangerous Waste Permit change notification has been approved so that the rinse bogie can be installed. The rinse bogie and decontamination vessel have been installed in the canister rinse tunnel and the rails have been aligned.

75% of the concrete has been poured in the facility with 58ft elevation walls continuing and a majority of the 37ft slabs complete. There are 3 slabs remaining to complete the 37ft level which are scheduled to complete by December 2012.

Fabrication of Plant Wash and Drain Vessel (RLD-VSL-08) in England was completed; and it was delivered to the Mid-Columbia Engineering Facility in April. Further inspection by Bechtel noted a number of weld deficiencies. At this time, Bechtel and the vendor are working to develop a Corrective Action Plan. The project completed factory acceptance testing on Thermal Catalytic Oxidizers (TCO) which are being fabricated in Colorado and are scheduled for delivery to the site in February 2013.

Significant Planned Actions in the Next Six Months:

- Complete 37' Structural Steel
- Develop Strategy Document for HEPA Filter Testing
- Complete Calculations to Melter Rail Supports

- Complete the First of the Two ABARs to Support PDSA Upgrade – Focus of the first ABAR is to incorporate changes in the facility and control descriptions.

Issues:

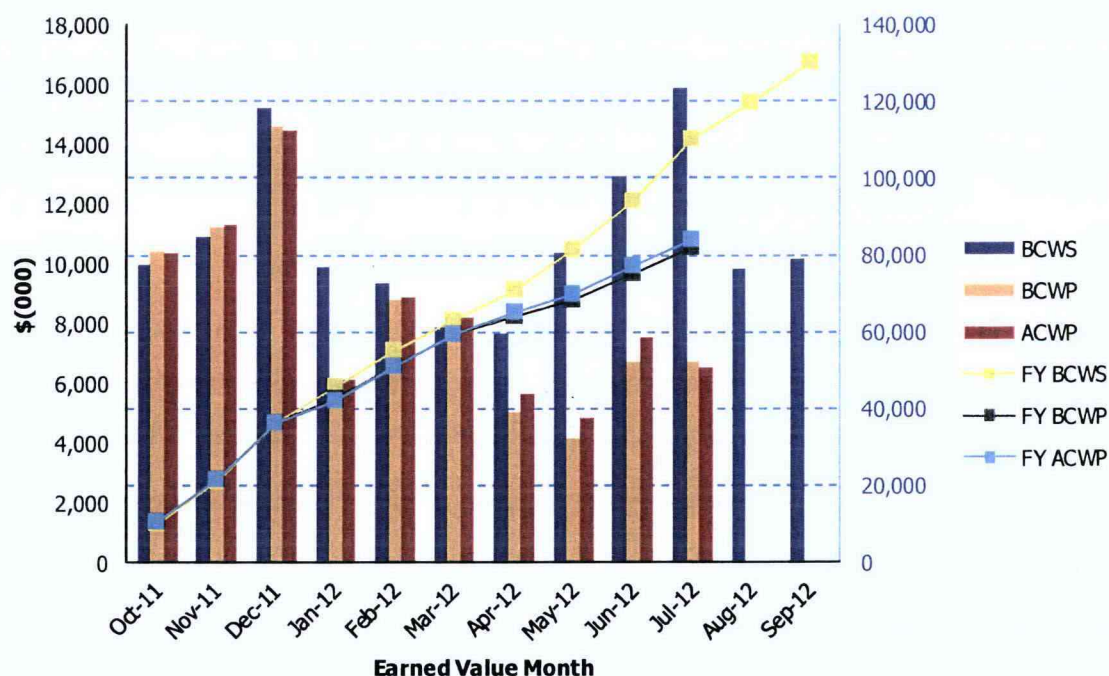
* Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

River Protection Project
High-Level Waste Facility

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$9,953	\$10,437	\$10,368	1.05	1.01	\$9,953	\$10,437	\$10,368	1.05	1.01
Nov 2011	\$10,920	\$11,224	\$11,295	1.03	0.99	\$20,873	\$21,661	\$21,663	1.04	1.00
Dec 2011	\$15,209	\$14,578	\$14,472	0.96	1.01	\$36,082	\$36,239	\$36,135	1.00	1.00
Jan 2012	\$9,878	\$6,187	\$6,142	0.63	1.01	\$45,960	\$42,426	\$42,277	0.92	1.00
Feb 2012	\$9,383	\$8,807	\$8,891	0.94	0.99	\$55,343	\$51,233	\$51,168	0.93	1.00
Mar 2012	\$7,900	\$7,901	\$8,221	1.00	0.96	\$63,243	\$59,134	\$59,389	0.94	1.00
Apr 2012	\$7,652	\$5,055	\$5,676	0.66	0.89	\$70,895	\$64,189	\$65,065	0.91	0.99
May 2012	\$10,364	\$4,150	\$4,849	0.40	0.86	\$81,259	\$68,339	\$69,914	0.84	0.98
Jun 2012	\$12,929	\$6,691	\$7,502	0.52	0.89	\$94,188	\$75,030	\$77,416	0.80	0.97
Jul 2012	\$15,888	\$6,709	\$6,541	0.42	1.03	\$110,076	\$81,739	\$83,957	0.74	0.97
Aug 2012	\$9,818			0.00		\$119,894			0.00	
Sep 2012	\$10,133			0.00		\$130,027			0.00	
PTD	\$939,569	\$913,365	\$909,015	0.97	1.00					

LOW-ACTIVITY WASTE (LAW) FACILITY

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	On-going
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	On-going
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	On-going

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that are anticipated to be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 69 percent complete overall, with engineering design 85 percent complete, procurement 88 percent complete, construction 72 percent complete, and startup and commissioning is 5 percent complete.

Significant Past Accomplishments:

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. The system design document and system software acceptance test for the Autosampling (ASX), Low-Pressure Steam (LPS), High-Pressure Steam (HPS) and Steam Condensate Water (SCW), C1 Ventilation (C1V), C2 Ventilation (C2V) and C5 Ventilation (C5V) systems were issued.

Updated system design documents for the LAW Container Export Handling (LEH) and LAW Container Pour Handling (LPH) were issued. New configuration data indices were issued for the LPS and Process Service Water (PSW) systems. Confirmed calculation was issued for the Erosion/Corrosion Evaluation for High and Low Pressure LAW Steam Lines. Piping isometric drawings for the LAW Melter Feed Process (LFP) system was issued. Piping support drawings were issued for the Plant Service Air (PSA), Radioactive Liquid Waste Disposal (RLD) and the Plant Cooling Water (PCW) systems. The Fabrication Details for LAW Melter Gas Barrier Lid and Shielded Lid Rail Transport System rigging plan were issued.

Procurement activities for the LAW facility are currently focused on the LAW Secondary Offgas/Vessel Vent Process System (LVP) system components. Engineering review of vendor calculations and vendor interactions continued as a major emphasis during the ongoing procurement of LVP system components. The first of two shipments for the utility crane was received which will be used to support upcoming refractory installations. Temperature transmitter for the LPS system was received and fabricated pipe stools.

The primary areas of construction focus continued to be LAW facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. Installation of the decontamination manipulators, finishing line dual-rail hoists, and the trolley/bogie cars for the LFH system continued.

Construction activities were initiated to install instrument tubing at elevation -21' for the Atmospheric Reference Ventilation (AVR) system and subcontractor crews began applying coatings to Chilled Water (CHW) system piping at elevation -21'. Installed duct to Multiple Overblow (MOB) units to support environmental control for upcoming melter refractory installations. Other on-going construction activities included installation of instrument tubing,

scheduled conduit in various planning areas along with unscheduled lighting conduit at elevation +48'. Electrical work activities continued on LAW Container Pour Handling (LPH) system crane in the buffer storage room and LAW Container Finishing Handling (LFH) system hoist at elevation +28'.

Installation activities were completed for sealing melter bay #3 floor openings leading to elevation -21' with steel plate shielding and framing structural steel in the fire riser room.

Comments were resolved for software functional requirements for the following systems:

- LRH – LAW Container Receipt Handling System
- LVP – LAW Secondary Offgas/Vessel Vent Process System
- MHJ – Mechanical Handling Control System

Comments were resolved for safety software functional requirements for the following system:

- LVP – LAW Secondary Offgas/Vessel Vent Process System

Significant Planned Actions in the Next Six Months:

- Complete installation of melter power supplies
- Complete installation of Auto Sampling (ASX) system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system
- Receive Thermal Catalytic Oxidizer (TCO) for LVP system

Issues:

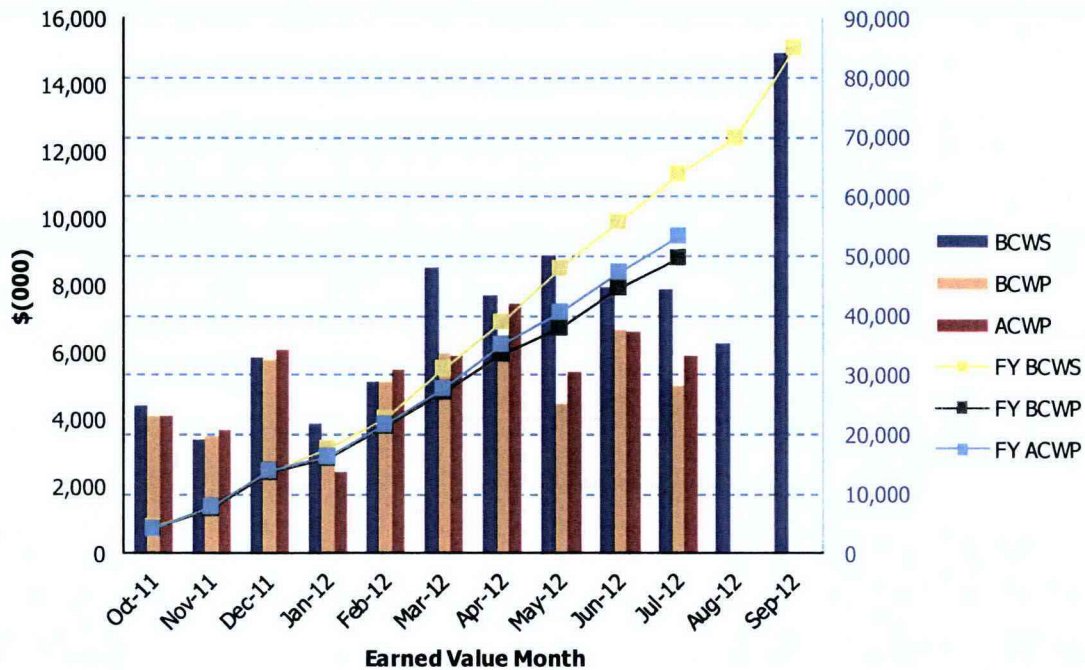
No major issues at this time.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Low-Activity Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$4,415	\$4,115	\$4,104	0.93	1.00	\$4,415	\$4,115	\$4,104	0.93	1.00
Nov 2011	\$3,404	\$3,510	\$3,704	1.03	0.95	\$7,819	\$7,625	\$7,808	0.98	0.98
Dec 2011	\$5,827	\$5,807	\$6,123	1.00	0.95	\$13,646	\$13,432	\$13,931	0.98	0.96
Jan 2012	\$3,886	\$2,617	\$2,412	0.67	1.08	\$17,532	\$16,049	\$16,343	0.92	0.98
Feb 2012	\$5,140	\$5,117	\$5,472	1.00	0.94	\$22,672	\$21,166	\$21,815	0.93	0.97
Mar 2012	\$8,531	\$5,960	\$5,900	0.70	1.01	\$31,203	\$27,126	\$27,715	0.87	0.98
Apr 2012	\$7,735	\$6,351	\$7,469	0.82	0.85	\$38,938	\$33,477	\$35,184	0.86	0.95
May 2012	\$8,906	\$4,481	\$5,425	0.50	0.83	\$47,844	\$37,958	\$40,609	0.79	0.93
Jun 2012	\$7,945	\$6,685	\$6,619	0.84	1.01	\$55,789	\$44,643	\$47,228	0.80	0.95
Jul 2012	\$7,905	\$5,017	\$5,930	0.63	0.85	\$63,694	\$49,660	\$53,158	0.78	0.93
Aug 2012	\$6,263			0.00		\$69,957			0.00	
Sep 2012	\$14,932			0.00		\$84,889			0.00	
PTD	\$700,277	\$686,922	\$735,695	0.98	0.93					

BALANCE OF FACILITIES (BOF)

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	On-going

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 50 percent complete overall, with engineering design 74 percent complete, procurement 50 percent complete, construction 65 percent complete, and startup and commissioning is 9 percent complete.

Significant Past Accomplishments:

Oversight efforts are focused on identification of individual facility requirements within BOF to support facility completion and turnover to the startup organization. As necessary to support facility completion, the WTP contractor initiates a weekly or bi-weekly meeting approximately 12 months prior to the scheduled turnover date. The meetings focus on schedule reviews and punch list development for the remaining construction activities. Regular meetings are currently being held for the WTP site switchgear buildings (87 and 91), Chiller Compressor Plant (CCP), and a meeting is being scheduled for the Non-radioactive Non-Dangerous Liquid Drains (NLD) facility.

Recent accomplishments for the BOF team are:

- Completed 8 week walk down for WTP switchgear building 87
- Began issuing system flushing sketches for the Plant Service Air (PSA) system and the Plant Cooling Water (CHW) system
- Began excavation for the Potable Water (DOW) tie-in at the PTF and the Sanitary Disposal system (SND) tie-in between the LAB and LAW facilities
- Began installing structural steel for pipe rack connection from the LAB to the LAW facility
- Continued installing PSA system piping in the Glass Former Storage Facility
- Continued installation of pressure safety valves in the CHW and PSA systems for the CCP

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower
- Complete construction of BOF switchgear building
- Install structural steel for anhydrous ammonia facility
- Turnover WTP Switchgear (Bldg. 87) from construction to the startup organization

Issues:

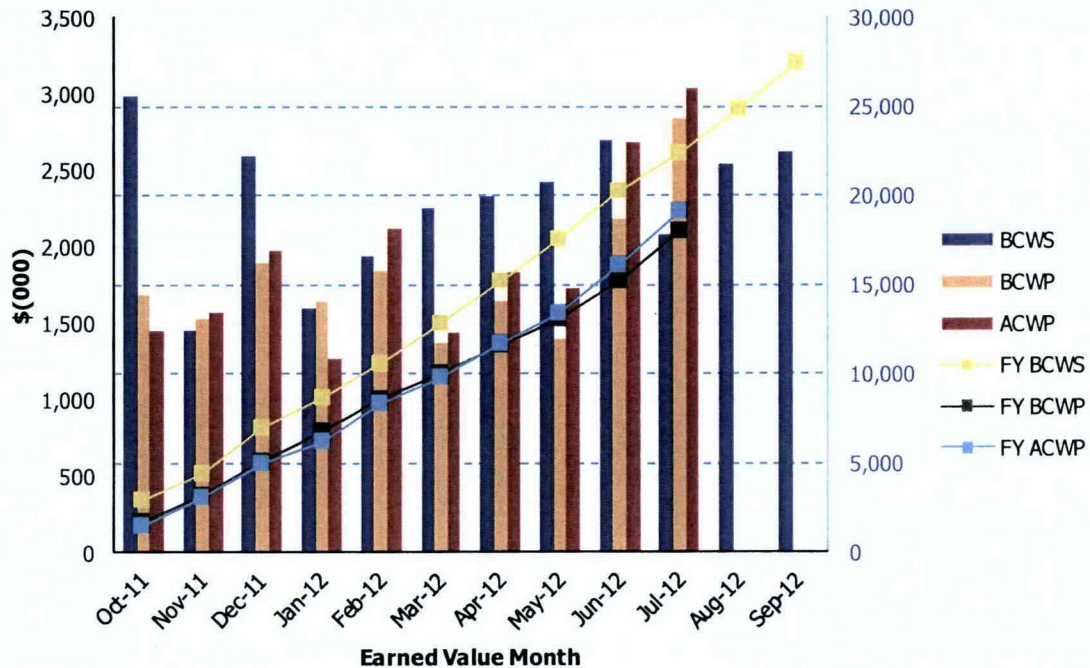
No major issues.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,980	\$1,685	\$1,454	0.57	1.16	\$2,980	\$1,685	\$1,454	0.57	1.16
Nov 2011	\$1,455	\$1,524	\$1,564	1.05	0.97	\$4,435	\$3,209	\$3,018	0.72	1.06
Dec 2011	\$2,594	\$1,895	\$1,981	0.73	0.96	\$7,029	\$5,104	\$4,999	0.73	1.02
Jan 2012	\$1,597	\$1,652	\$1,262	1.03	1.31	\$8,626	\$6,756	\$6,261	0.78	1.08
Feb 2012	\$1,939	\$1,841	\$2,123	0.95	0.87	\$10,565	\$8,597	\$8,384	0.81	1.03
Mar 2012	\$2,248	\$1,376	\$1,444	0.61	0.95	\$12,813	\$9,973	\$9,828	0.78	1.01
Apr 2012	\$2,331	\$1,651	\$1,835	0.71	0.90	\$15,144	\$11,624	\$11,663	0.77	1.00
May 2012	\$2,421	\$1,399	\$1,725	0.58	0.81	\$17,565	\$13,023	\$13,388	0.74	0.97
Jun 2012	\$2,698	\$2,188	\$2,685	0.81	0.81	\$20,263	\$15,211	\$16,073	0.75	0.95
Jul 2012	\$2,075	\$2,838	\$3,040	1.37	0.93	\$22,338	\$18,049	\$19,113	0.81	0.94
Aug 2012	\$2,533			0.00		\$24,871			0.00	
Sep 2012	\$2,615			0.00		\$27,486			0.00	
PTD	\$276,181	\$270,160	\$268,170	0.98	1.01					

ANALYTICAL LABORATORY

Number	Title	Due Date	Status
D-00A-05	LAB Construction Substantially Complete	12/31/2012	On-going

The Analytical Laboratory (LAB) will support WTP operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 56 percent complete overall, with engineering design 82 percent complete, procurement 78 percent complete, construction 87 percent complete, and startup and commissioning is 10 percent complete.

Significant Past Accomplishments:

The LAB team continued to focus on the LAB Construction Substantially Complete milestone. Weekly meetings are held to evaluate construction progress and challenges that arise. Major structures of the building are in place including the interior partition walls which segregate the various analytical stations for LAW sample analysis. Within the individual analytical areas, detail/finishing work continues with emphasis on the installation of commodities to support laboratory cabinets and analytical equipment. Recent accomplishments for the LAB team are listed below:

- Began installing shower/eyewash stations throughout the facility
- Began testing of the Chill Water system
- Continuing RLD system installation in the southeast corner of the facility
- Continued installing hotcell lighting receptacles

Significant Planned Actions in the Next Six Months:

- Complete mechanical installation of Autosampling System
- Set pumps in C5 pit
- Install Hot Cell import/export motors
- Progress Analytical Laboratory Construction to "Substantially Complete"

Issues:

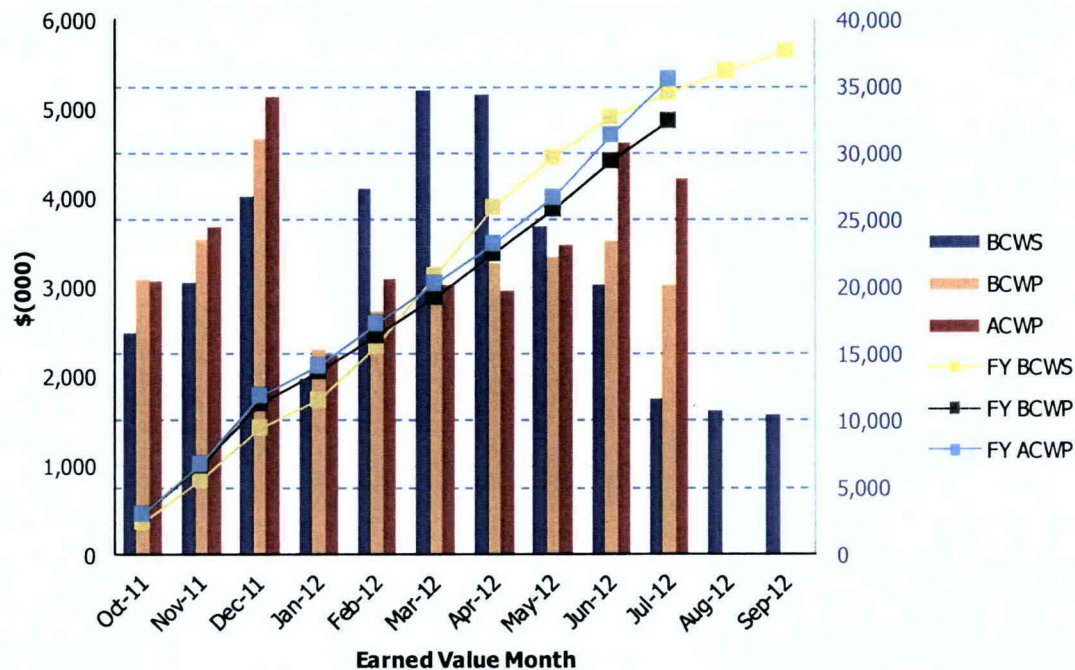
The LAB schedule was recently affected by an issue concerning valve internals. There is the potential that as many as 275 valves could have had their internal components damaged due to excessive temperatures caused by welding during installation. BNI plans to examine 65 of the valves and base the recovery plan upon the inspection results. While this will delay the goal of early LAB construction completion, there is currently no impact to the Consent Decree milestone (D-00A-05) or contract milestone completion dates.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

River Protection Project Analytical Laboratory

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,489	\$3,092	\$3,063	1.24	1.01	\$2,489	\$3,092	\$3,063	1.24	1.01
Nov 2011	\$3,040	\$3,551	\$3,680	1.17	0.96	\$5,529	\$6,643	\$6,743	1.20	0.99
Dec 2011	\$4,005	\$4,676	\$5,128	1.17	0.91	\$9,534	\$11,319	\$11,871	1.19	0.95
Jan 2012	\$1,970	\$2,318	\$2,242	1.18	1.03	\$11,504	\$13,637	\$14,113	1.19	0.97
Feb 2012	\$4,113	\$2,725	\$3,091	0.66	0.88	\$15,617	\$16,362	\$17,204	1.05	0.95
Mar 2012	\$5,203	\$2,860	\$3,036	0.55	0.94	\$20,820	\$19,222	\$20,240	0.92	0.95
Apr 2012	\$5,167	\$3,265	\$2,954	0.63	1.11	\$25,987	\$22,487	\$23,194	0.87	0.97
May 2012	\$3,685	\$3,349	\$3,486	0.91	0.96	\$29,672	\$25,836	\$26,680	0.87	0.97
Jun 2012	\$3,020	\$3,531	\$4,627	1.17	0.76	\$32,692	\$29,367	\$31,307	0.90	0.94
Jul 2012	\$1,756	\$3,035	\$4,227	1.73	0.72	\$34,448	\$32,402	\$35,534	0.94	0.91
Aug 2012	\$1,612			0.00		\$36,059			0.00	
Sep 2012	\$1,572			0.00		\$37,631			0.00	
PTD	\$204,250	\$200,871	\$216,304	0.98	0.93					

Waste Treatment Plant Project - Percent Complete Status Through July 2012															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	993.7	666.9	60%	250.8	213.4	85%	242.1	214.1	88%	350.5	252.6	72%	150.3	6.9	5%
Analytical Lab	360.0	200.2	56%	57.9	46.6	81%	56.2	44.0	78%	109.6	95.1	87%	126.6	14.1	10%
Balance of Facilities	558.9	270.2	50%	89.0	65.9	74%	81.4	41.1	50%	231.8	150.2	65%	136.7	12.9	9%
High-Level Waste	1,516.3	913.4	60%	355.8	309.7	87%	458.2	353.0	77%	562.3	245.9	42%	120.0	4.8	4%
Pretreatment	2,558.5	1,392.5	54%	774.0	623.4	81%	713.5	374.0	53%	914.6	387.5	42%	186.4	7.1	4%
Shared Services	4,720.2	3,566.3	76%	1,065.1	924.1	92%	471.7	407.8	86%	1,432.9	1,132.5	79%	455.9	138.4	30%
Total WTP w/o UB	10,718.2	7,050.1	66%	2,532.6	2,183.1	86%	2,023.2	1,434.7	71%	3,621.9	2,263.8	63%	1,185.8	184.3	16%
Undistributed Budget	0.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	10,718.5	7,050.1	66%	2,532.6	2,183.1	86%	2,023.2	1,434.7	71%	3,621.9	2,263.8	63%	1,185.8	184.3	16%

Now: Starting with the June 2008 report, Facility Construction percent complete values decreased significantly, and a couple of Design/Engineering Facility percent complete values went down as well. The decrease in values was tied to Phase 1 of BNVP elimination of WBS 1.08, Plant Wide EPC; scope from WBS 1.08 was moved to factories as appropriate or to WBS 1.00, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.00 to the factories was removed to show true facility percent complete. This report does not show the LOE budgets that are not associated with a specific EPC function; these include: Finance, Project Management, etc. but are included in the total Overall Facility Percent Complete for Shared Service.

WORKING ORP Key Documents List
For September 2012

Milestone Title	Milestone Tie	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Submit Interim Measures Investigation Work Plan and TPA Chg Pckgs for M-045-22 Target Dates	M-045-20	Interim measures investigation "other" work plan for to vadose zone characterization at 241-TX Farm and 241-U Farm, and soil desiccation/contaminant removal proof-of-principal test at 241-SX Farm	12/31/12							<ul style="list-style-type: none">Created via Change Package M-45-12-04 on 06/21/12
Submit for Review and Approval a Sampling and Analysis Plan to Ecology for Soil Samples for 241-TX Tank Farm Investigation	M-045-21	Sampling and Analysis Plan for Soil Samples for 241-TX Tank Farm Investigation	03/31/13							<ul style="list-style-type: none">Created via Change Package M-45-12-04 on 06/21/12
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report for WMA C	Supports M-045-61	WMA C Characterization Summary 2011		TBD			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none">Feeds input for M-045-61 and all Closure PlansORP met with ECY on 09/22/11 to provide status and setup meeting to discuss path forward.
	Supports M-045-61	WMA C Characterization Summary 2012		09/30/12			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none">Feeds input for M-045-61 and all Closure Plans
		WMA C PA Initial Model Run Data Package		06/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none">Feeds input for M-045-61 and all Closure Plans
		WMA C Characterization Summary 2013		09/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none">Feeds input for M-045-61 and all Closure Plans
		WMA C PA Initial Document		09/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none">Feeds input for M-045-61 and all Closure Plans
	M-045-61	Phase 2 RFI/CMS Report for WMA C	12/31/14	12/31/14			C. Kemp	S. Eberlein	J. Lyon	
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 Corrective Measures Implementation Work Plan for WMA C.	M-045-62	Phase 2 Corrective Measures Implementation Work Plan for WMA C	06/30/15	06/30/15			C. Kemp	S. Eberlein	J. Lyon	
M-45-91 Interim Milestones and Target Dates for SST Integrity Implementing the Expert Panel's Recommendations	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/13	01/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none">Moved to 01/31/13 per M-45-12-01 TPA Chg Pckg.Reported as At Risk in August 2012 TPA Quarterly Mtg
	M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none">Reported as At Risk in August 2012 TPA Quarterly Mtg
	M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none">Reported as At Risk in August 2012 TPA Quarterly Mtg
	M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	09/31/13	09/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none">Moved to 09/31/13 per M-45-12-01 TPA Chg Pckg.Reported as At Risk in August 2012 TPA Quarterly Mtg
	M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	09/30/13	09/30/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	10/31/13	10/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none">Reported as At Risk in August 2012 TPA Quarterly Mtg
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/13	12/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none">Reported as At Risk in August 2012 TPA Quarterly Mtg

¹ "TPA Milestone Due Dates" are the direct regulatory drivers for completion of milestones.

² "ORP Delivery to Regulators Dates" are those dates that support future milestones, are submittal dates for permitting activities, or miscellaneous submittals that support ORP actions and represent the dates when ORP submits documents to the regulators. ORP Delivery to Regulators Dates may be earlier than TPA Milestone Due Dates if work is completed ahead of schedule.

³ The "Anticipated Regulatory Review Completion Date" is generated based on TPA Milestone Agreements and TPA Section 9.0 documentation requirements for primary documents. This date will be changed and noted in "Comments/Issues" if extension of review is requested. If the document is a secondary document or for information only, the "Anticipated Regulatory Review Completion Date" may be listed as "N/A" for not applicable.

⁴ "Final Completion Date" is entered after the document is reviewed, comments are incorporated, and any disputes are resolved. Any comment resolution issues or disputes will be noted under "Comments/Issues."

Bold red = DOE submittal within the next 90 days **Bold green = document is under initial ECY Regulatory Review** **Bold black = document under comment/review response or other actions** **Bold blue = document is completed**

WORKING ORP Key Documents List For September 2012

Milestone Title	Milestone Tie	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
M-45-91 Interim Milestones and Target Dates for SST Integrity (continued)	M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/14	04/30/14			J. Johnson	R. Gregory	J. Lyon	• Reported as At Risk in August 2012 TPA Quarterly Mtg
	M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	09/30/14	09/30/14			J. Johnson	R. Gregory	J. Lyon	
	M-045-91H	Submit Change Pckg (if necessary) to est. Additional Milestones	07/31/15	07/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91I	Provide IQRPE Certification of SSTs Structural Integrity	09/30/18	09/30/18			J. Johnson	R. Gregory	J. Lyon	
Prior to beginning construction and at least one year before construction is to be complete, DOE will submit to Ecology a final design and monitoring plan for each interim barrier.	M-045-92O	Future Barrier Design 3	06/30/15	06/30/15			C. Kemp	S. Eberlein	J. Lyon	• ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/15 dependent on discussions per M-045-22.
	M-045-92P	Future Barrier Design 4	06/30/16	06/30/16			C. Kemp	S. Eberlein	J. Lyon	• ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/16 dependent on discussions per M-045-22.
Submit to Ecology as an Agreement Primary Document a report on all Catch Tanks and associated pipelines that are identified in the SST System Part A, or otherwise used in operations.	M-045-101 (P)	SST System Component Identification and Proposed Closure Strategy (RPP-PLAN-41977)	12/27/10	12/28/10	05/30/11	08/24/12	C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10 ECY letter for extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY RCR letter 11-NWP-052 received by ORP on 06/02/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11. In October 2011 PMM ECY/ORP agreed to extension to 12/05/11. Comments to RCR and redline provided to ECY on 11/14/11. Extension for comment resolution to 03/15/12 per 01/12 PMM. ECY and ORP agree (per 04/24/12 PMM) to meet in May 2012 to discuss comment resolution and extend the final resolution to the end of June. ORP and ECY entered into an IAMIT Agreement to forego further revision of this document on 08/24/12.
Waste Supplemental Treatment Report	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14	10/31/14			S. Pfaff	C. Burrows	D. McDonald	• ORP and ECY plan to meet to discuss this document in September 2012.
Technology Selection Report	M-062-45-ZZ	Technologies Selection Report	04/30/15	04/30/15			S. Pfaff	C. Burrows	D. McDonald	
Complete final design and submit RCRA Part B Permit Modification Request	M-062-31-T01	RCRA Part B Permit Modification--Final Design	04/30/16	04/30/16			S. Pfaff		D. McDonald	

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WORKING ORP Key Documents List For September 2012

Topic Areas	Document	ORP Delivery to Regulators Date ¹	Anticipated Regulatory Review Completion Date ²	Final Completion Date ³	DOE-ORP Lead	Contractor Lead	Regulator Lead	Comments/Issues
PERMIT DOCUMENTS	Tier 1 Framework Closure Plan Update	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	Tier 2 WMA C Closure Plan	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	All Remaining Closure Plans for WMA C	09/30/15			C. Kemp	S. Eberlein	J. Lyon	
	WMA C Closure Conceptual Design	TBD			C. Kemp	S. Eberlein	J. Lyon	
	Tier 3 Closure Plans for Tanks Already Received	TBD			C. Kemp	S. Eberlein	J. Lyon	• Due 120-day post EIS
	Tier 3 Closure Plans for Additional Tanks	TBD			C. Kemp	S. Eberlein	J. Lyon	• Several Dates in out years
	WMA C Closure Design	TBD			C. Kemp	S. Eberlein	J. Lyon	• Final dates not yet determined
	Supplemental Treatment Technology Notice of Construction	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Submit Part B Permit Application for Selected Supplemental Treatment Technology	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Wiped Film Evaporator Notice of Construction	09/30/14			L. Huffman	F. Miera	J. Lyon	
	Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application	09/30/14			L. Huffman	F. Miera	J. Lyon	
	IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	09/30/12			T. Fletcher	F. Miera	J. Lyon	
MISCELLANEOUS DOCUMENTS	Submit Categorical TOC HIA	TBD				F. Miera	J. Lyon	
	Quarterly Hose-In-Hose Transfer Lines (HIHTL) Reports	Ongoing Quarterly			J. Johnson		J. Lyon	<ul style="list-style-type: none"> Back-reports submitted via email to ECY, formal letter 11-TPD-024 transmitted back reports to ECY on 03/29/11 Meeting to evaluate extension of 2 HIHTL Reports held 05/25/11.
TWRWP DOCUMENTS	Please see ORP Consent Decree Monthly Summary Report for Tank Waste Retrieval Work Plan Status Table, Accomplishments, and Issues.							

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ORP Project Managers Meeting
September 25, 2012
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

Attachment D: Agenda Including Items Submitted to Administrative Record

(2 pages including this coversheet)

**ORP TPA September 2012 PMM Meeting
Tuesday, September 25, 2012
2440 Stevens Center Richland, Washington
Room 1200, 9:00AM-12:00PM**

AGENDA

1.0 Administrative Items

Recent Items Entered/To Be Entered into the TPA Administrative Record (see <http://www5.hanford.gov/arpir/?content=advancedSearch> - search EDMC File Number)

Item Description	TPA/CD Topic Milestone Tie	TPA Admin Record – EDMC File Number
August 2012 ORP CD Monthly Report	All	1216184
August 2012 ORP TPA Monthly Report	All	1216185
IAMIT Agreement to forego further revision of the TPA primary document for M-045-101, Single-Shell Tank (SST) System Component Identification and Proposed Closure Strategy	M-045-101	1216381
241-TY Tank Farm Interim Surface Barrier Monitoring Plan, RPP-PLAN-36705, 08/28/12 Meeting Minutes	M-045-56; M-045-92B	In process

2.0 Review of the ORP Project Summary

3.0 Agreements, Issues, Actions

4.0 Key Documents List

Upcoming Meetings

- The next ORP TPA PMM is scheduled for Tuesday, October 23, 2012 at ORP.

ORP Project Managers Meeting
September 25, 2012
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

Attachment E: Ecology Listing of TPA PMM Issues

(3 pages including this coversheet)

Lynch, James J

From: Lyon, Jeffery (ECY) [JLYO461@ecy.wa.gov]
Sent: Thursday, September 20, 2012 2:52 PM
To: Lynch, James J; Uziemblo, Nancy H; Kemp, Christopher J; Luke, Jeffrey J; Noland, Terry W; Piippo, Robert E; Russell, Woody
Subject: TPA PMM
Attachments: September TPA PMM Issue 9-20-12.docx

Follow Up Flag: Follow up
Flag Status: Flagged

I would like to have the TWRWP Part 2 sections listed in the TPA Monthly Summary. USDOE can maintain a separate list of Part 1's in the CD report if that is what they would like, also please provide the latest revision number of each TWRWP.

Here are a list of TPA PMM issued from Ecology that we would like included in the TPA Monthly Summary.

Thanks

September TPA PMM Issues

M-045-82	Ecology concerns regarding level of sampling and analysis of ancillary equipment and piping to meet closure requirements without a Performance Assessment.
M-045-80	If funding isn't available USDOE will need to resolve schedule issues identified in the WIR process document (RPP-PLAN-47325) and meeting Closure Milestones M-045-82 and M-045-83
Letter 12-TF-0035	In regards to your letter 12-TF-0035, on WMA-C Closure activities: (1) we are concerned that report RPP-ENV-33418 was issued in January of 2012 and we are just now being notified (September 7, 2012); (2) we do not think that giving our stakeholders (or Ecology) a deadline for comments by September 30 is reasonable, we will be extending this date until October 31, 2012, and would expect USDOE to respond to comments, and meet with Ecology and any Stakeholders at our office to discuss resolutions before December 31, 2012, and to provide a completion schedule for further activities.
Letter 12-TF-0035	In regards to your letter 12-TF-0035, WMA-C Leak Loss (Rev2A), Ecology still have ongoing issues and some are identified in report; there is no further involvement from EPA for soils investigation (Appendix I) or in any potential PA work.
Letter 12-TF-0035	In regards to your letter 12-TF-0035, Tc-99 interferences problems in the Lab are over 2 years ago and have been identified by Ecology earlier, report is delayed until March 2013, and now there are further plans to sample for additional TPA Milestones; not apparent efforts to resolve issues to date.
C-101 TWRWP, Part 2	Owe Nancy C-101 Soil Investigation on the TWRWP –TPA Actions, Due May 2012 Sample Pushes, are probes positioned optimal to monitor leaks; provide basis for determining small leak. USDOE12-TF-0035, says that data is to be delivered to Ecology in November still on track?
Work plan	USDOE12-TF-0035, says that WMA-C soil work is on priority list FY-13 in letter, (C-200's and evaluation of borings, from E2720 (abandoned E2723, High Tc-99) –when are you doing it?
Leak Loss Investigations	TX and U farm draft documents, needs finalized to complete Milestone work for the Interim Actions (vapor study [SX], SGE [U], TX sampling and soil investigation for Interim Measures [can ecology get the Draft])
CD Retrievals	Ecology would like to be informed 2 hours before USDOE and WRPS determine that they will no longer retrieve a tank, we prefer to be present and notified, before retrieval actions are considered complete
CD	C-102 concrete retrieval technology and sampling development; Third technology will need to consider this or if a PA is completed then we can agree to the requirements of leaving waste levels in tanks before we achieve the 360 goal
CD	Confirm 2014 date is still good for end of retrievals,
CD	Provide C-102 schedule, can we obtain the Interim Stabilization report for C-102

ORP Project Managers Meeting
September 25, 2012
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

**Attachment F: Meeting Notes: Comment Resolution for Barrier Monitoring Technical Basis
and Plan Update**

(2 pages including this coversheet)

**Meeting Notes: Comment Resolution for Barrier Monitoring
Technical Basis and Plan Update**

Meeting Date: August 28, 2012

Location: Ecology Building

Purpose: Resolve comments on the draft technical basis document for barrier monitoring frequency and the revised barrier monitoring plan (241-TY Tank Farm Interim Surface Barrier Monitoring Plan, RPP-PLAN-36705)

Attendees: Jeff Lyon (Ecology), Michelle Hendrickson (Ecology), Joe Caggiano (Ecology), Susan Eberlein (WRPS), Dan Glaser (WRPS), Dan Parker (WRPS)

Background:

The interim surface barriers at 241-T and 241-TY tank farms are monitored. A reduction in the frequency of specific data collection activities has been proposed. A technical basis document, providing the basis for the proposed change has been drafted. Ecology reviewed the technical basis document and the proposed changes to the monitoring plan and provided comments. This meeting was held to review the comments and identify the resolution of each comment.

Summary:

- Editorial comments are accepted throughout the documents, and a complete technical edit has been performed on the new technical basis document.
- Data will be downloaded quarterly from the automatic data logging devices.
- Neutron moisture logging will be performed twice per year, nominally once in winter and once in summer.
- The potential to perform additional opportunistic logging in response to unusual weather events (e.g. heavy rainfall or large snow-melts) will be included in a list of topics to be discussed in a separate meeting on interim measures, and is a potential topic for inclusion in future actions under milestone M-045-56 (annual planning meeting for interim measures).
- Additional explanation will be added for the spike observed in one sensor (as shown in Figures 2-1 and 2-2 of the technical basis document).
- Reference to a Drain Gauge will be deleted from RPP-PLAN-46705.
- Errors in some of the labeling of columns in the tables of the technical basis document will be corrected.
- Additional discussion will be added on the variability of the data previously collected hourly, and then averaged to generate a daily value.
- Since RPP-PLAN-36705 was previously transmitted as part of TPA milestone M-45-92B, the revision will be submitted to Ecology with a TPA change notice for their approval.
- The technical basis document and the T barrier monitoring plan will be updated, but do not need to be submitted with TPA change notices.

Ecology indicated that they did not need to see the revised monitoring plan (RPP-PLAN-36705) prior to its formal submission with a TPA change notice.

Concurrence:

 9-7-12

C.J. Kemp, ORP

Date

 9-19-12

J.L. Lyon, Ecology

Date